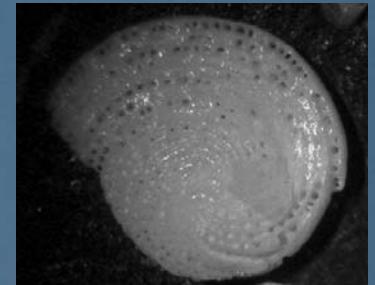
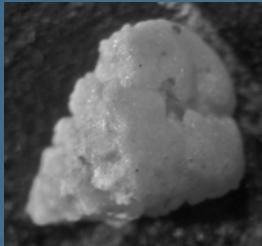
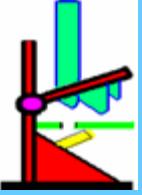


# Identification of Common Tropical and Subtropical Shallow Water Foraminifera of South Florida

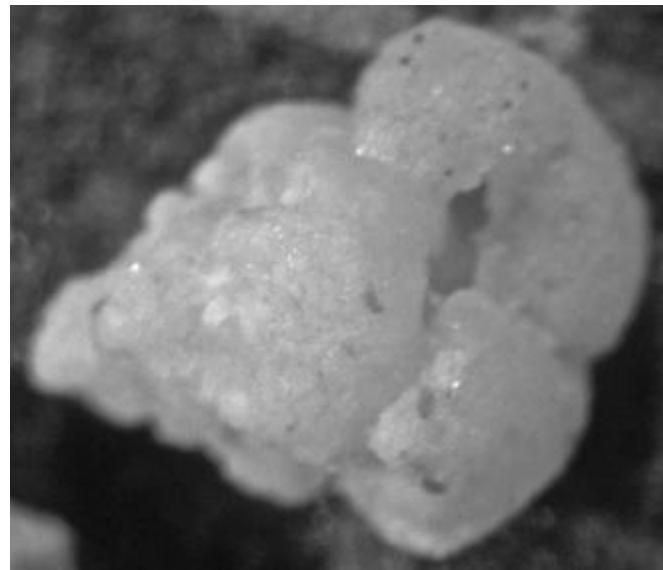
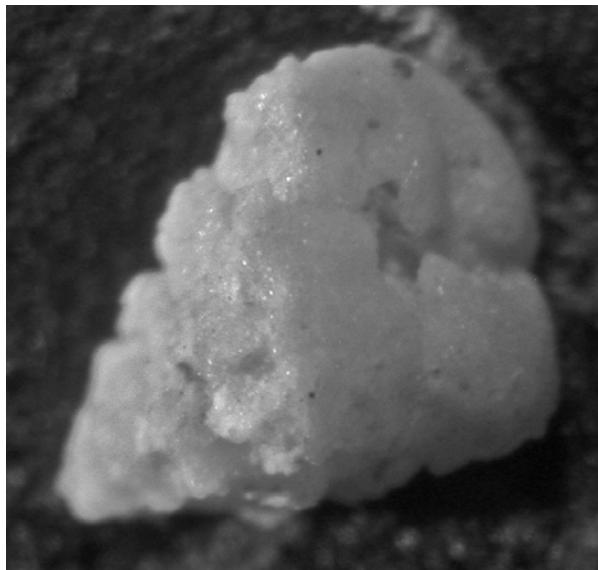
(50+ common forms for students)



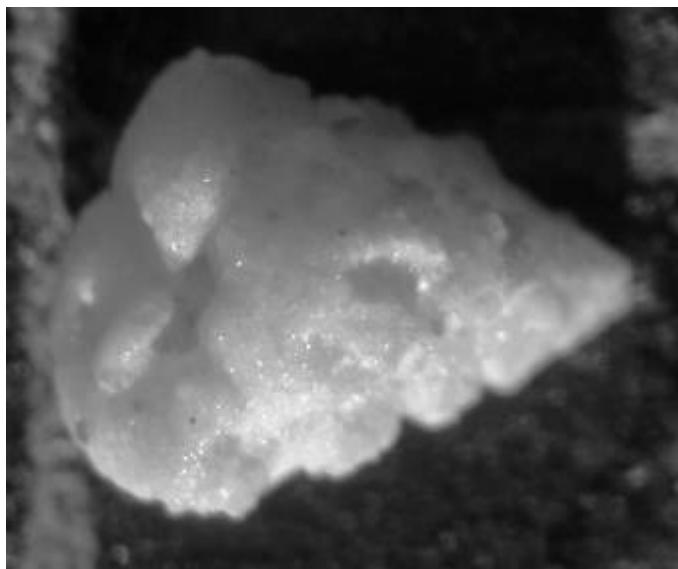
Mikrogeo

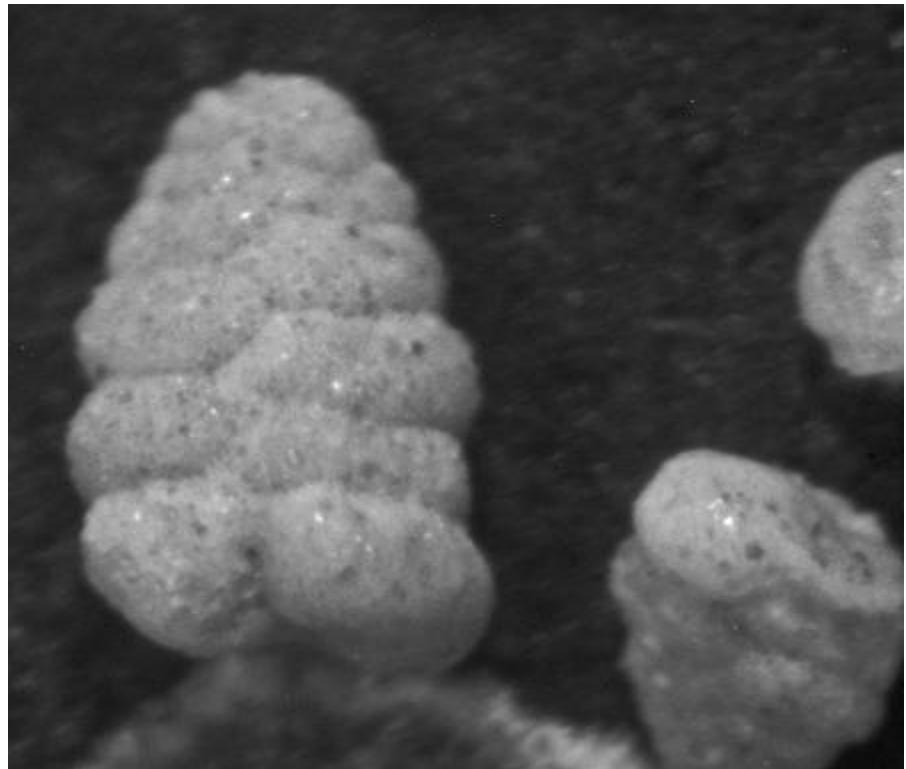
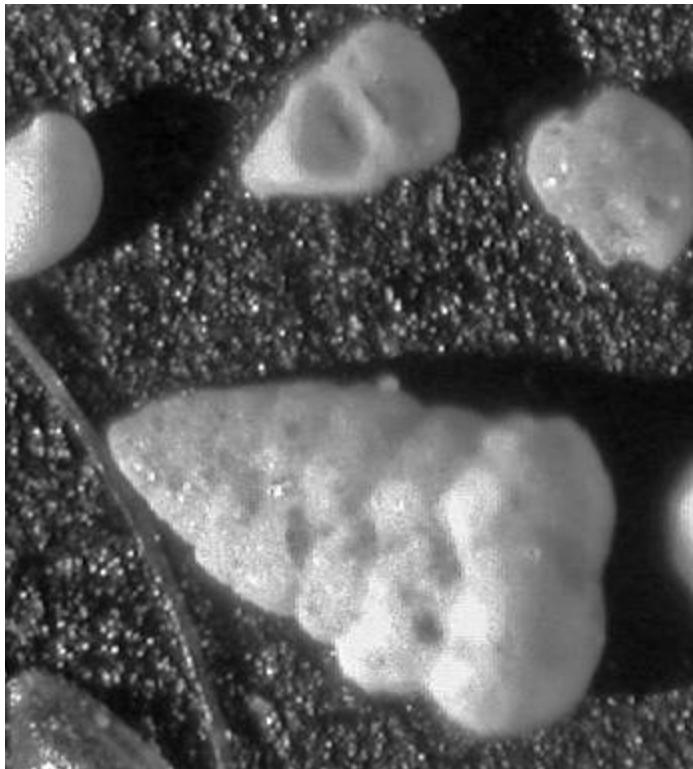


[mikrogeo.com](http://mikrogeo.com)

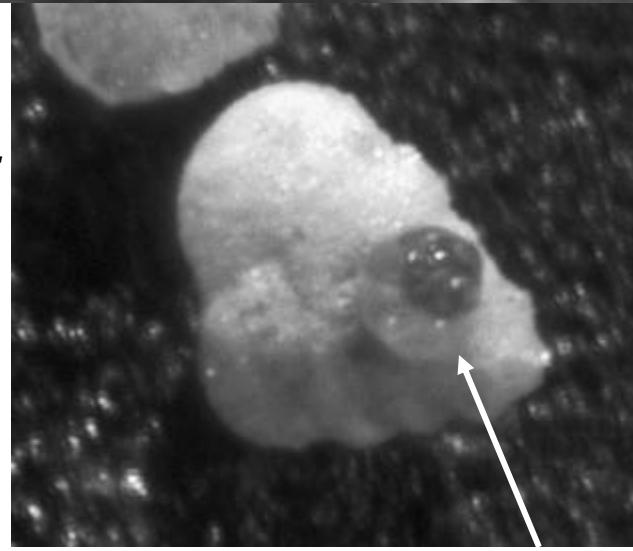


***Valvulina oviedoiana*; triserial**

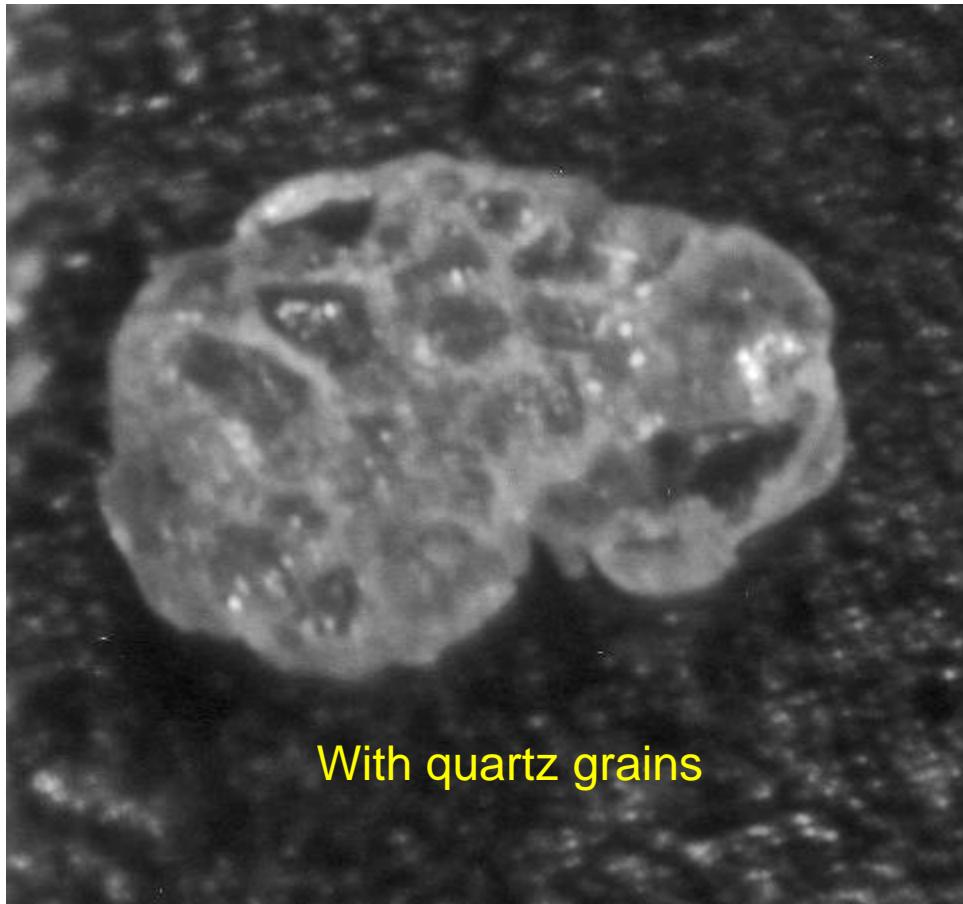




*Textularia  
agglutinans;*  
**biserial**



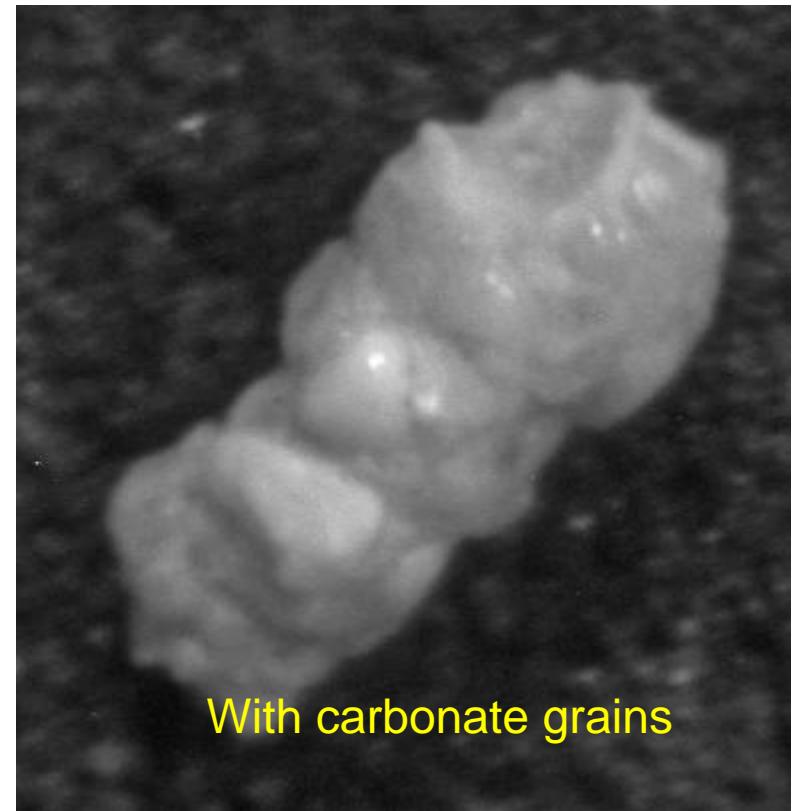
*Rosalina concinna*



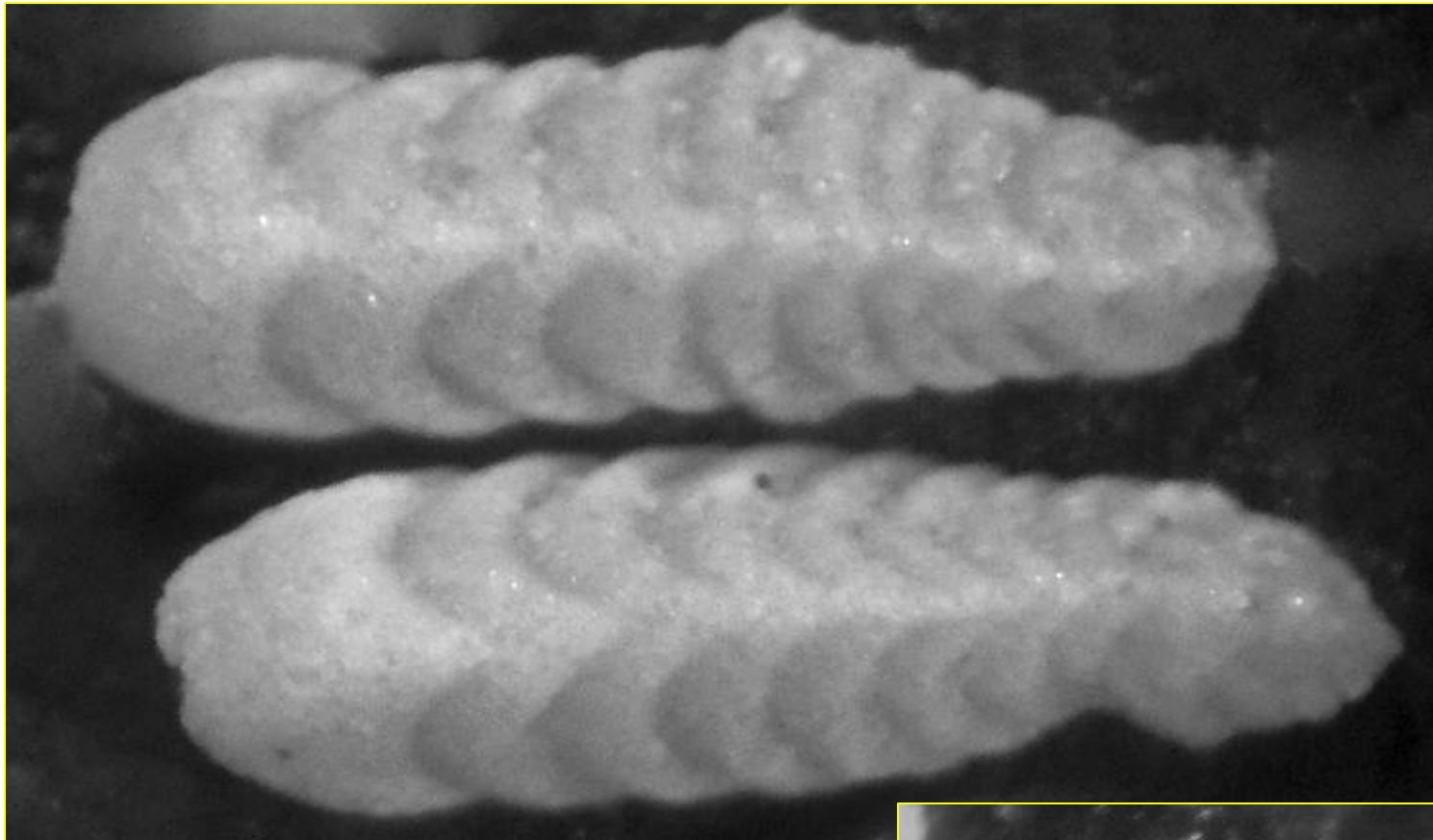
With quartz grains

***Ammotium sp.,***

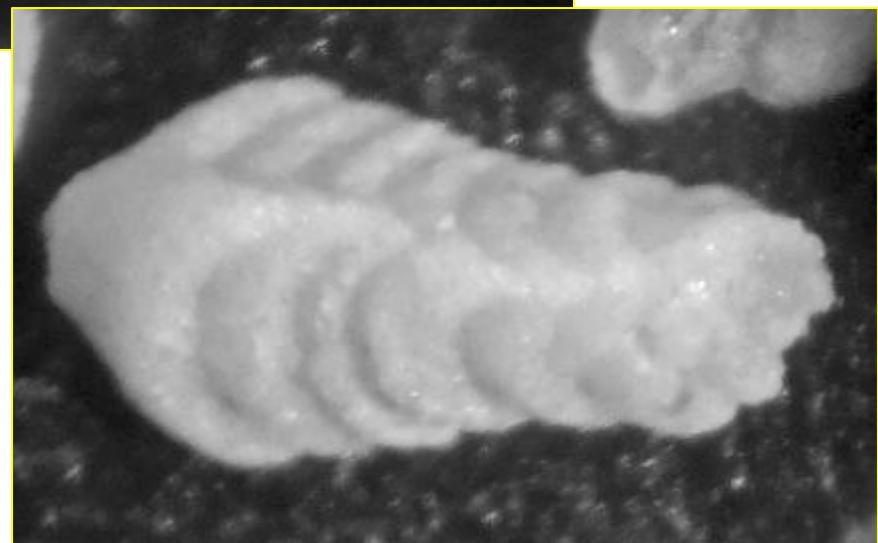
**Often listed as  
*Ammobaculites***

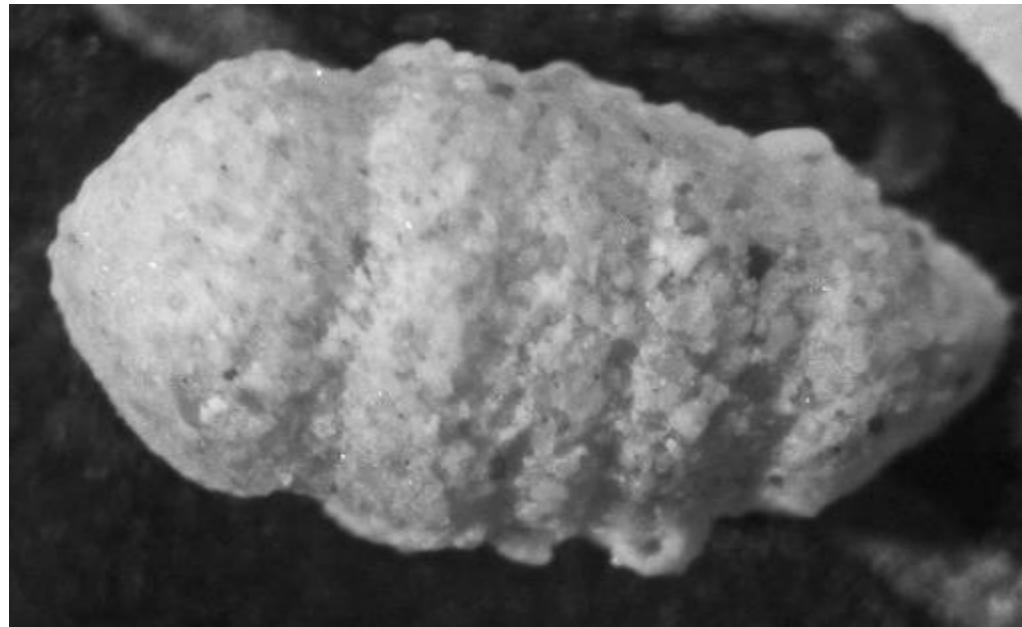


With carbonate grains

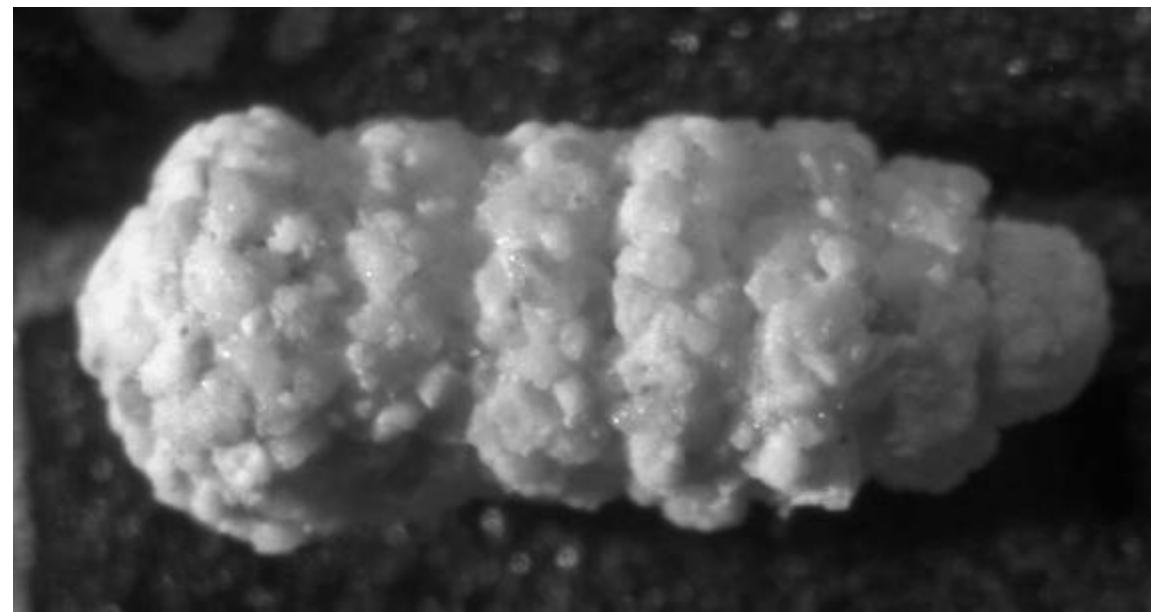


*Clavulina tricarinata*



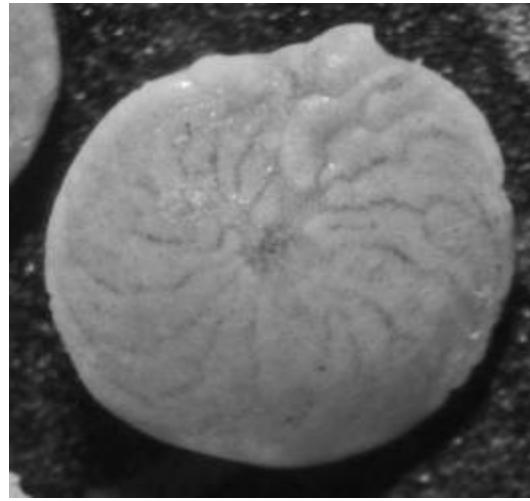


***Liebusella soldanii***

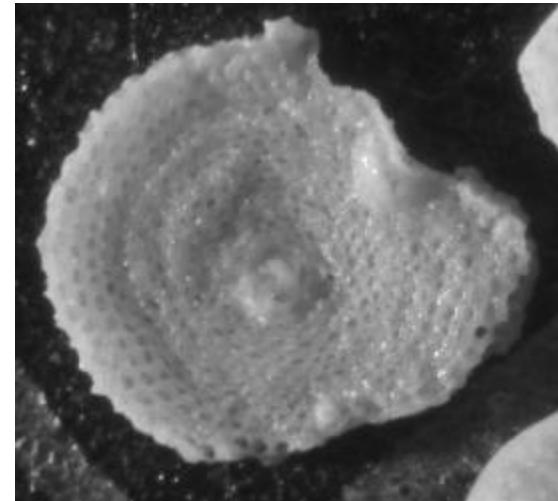




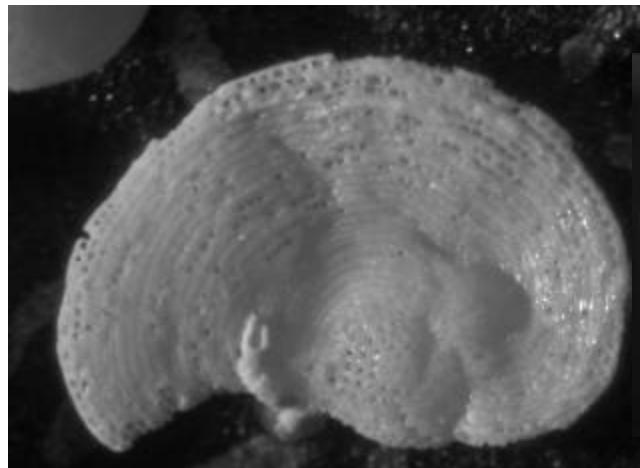
*Asterigerina carinata*



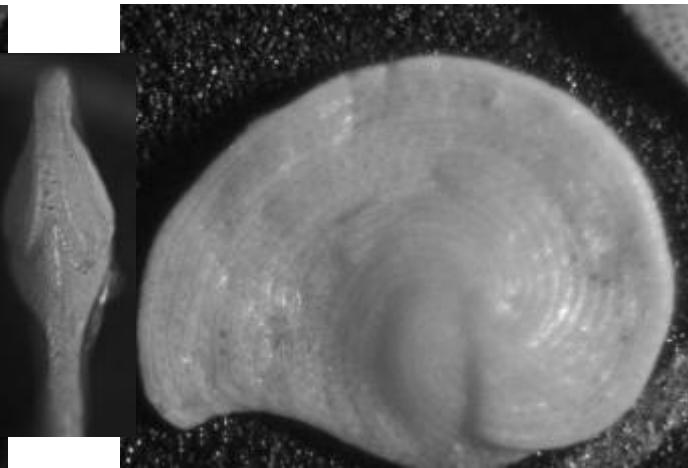
*Amphistegina lessonii*



*Sorites marginalis*

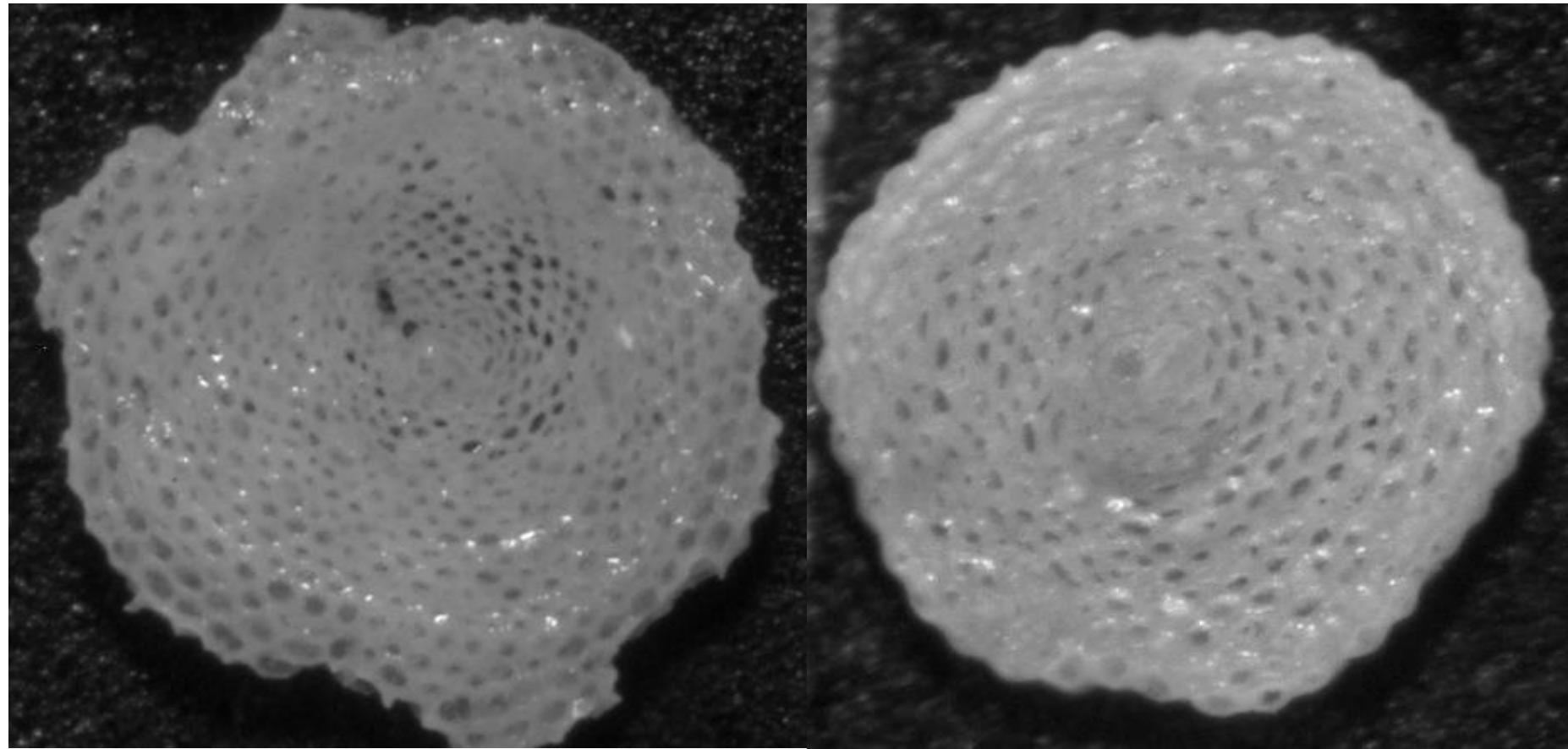


*Archais angulatus*

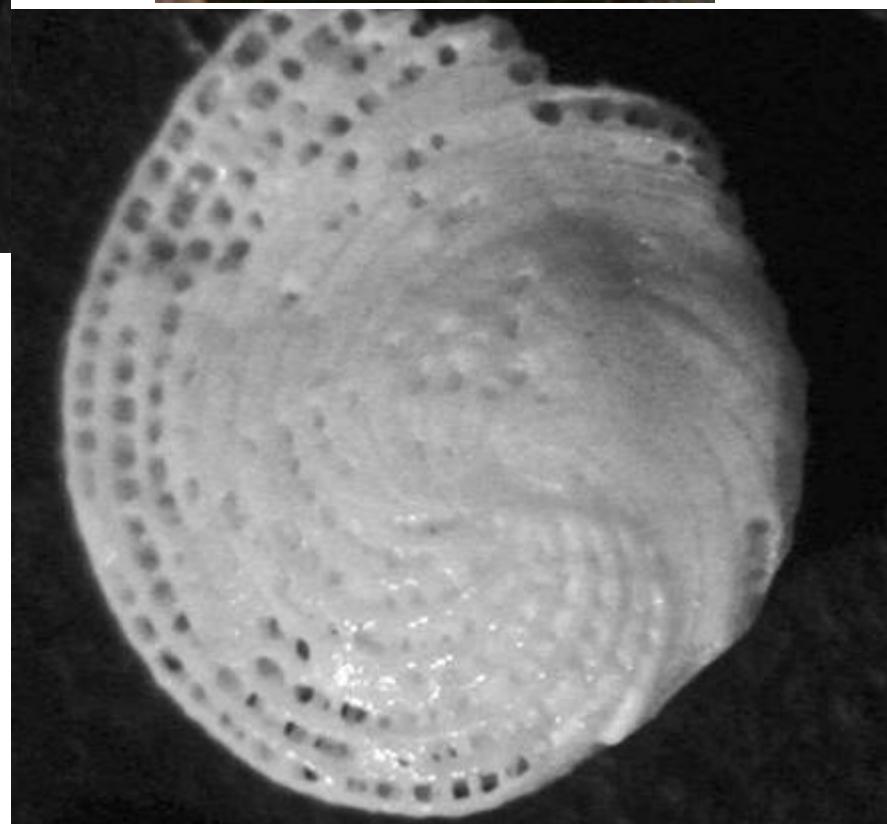
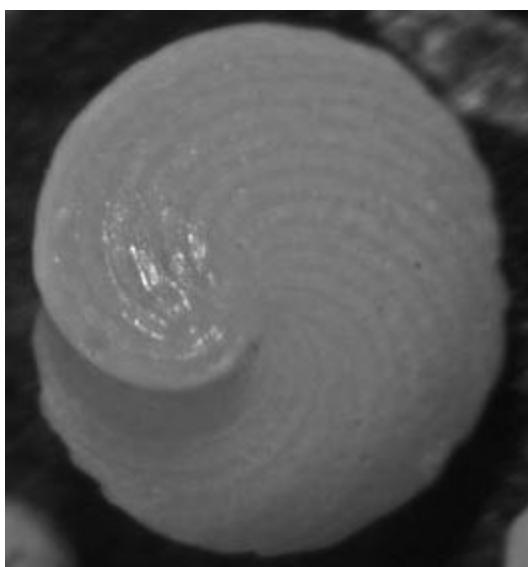
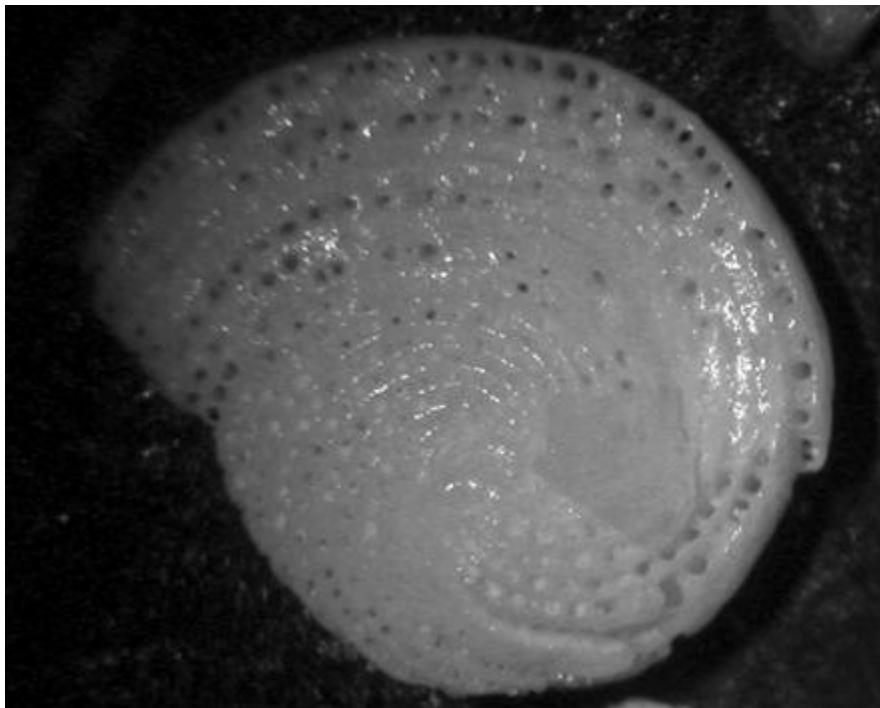


*Broeckina orbitolitoides*

*Sorites marginalis*



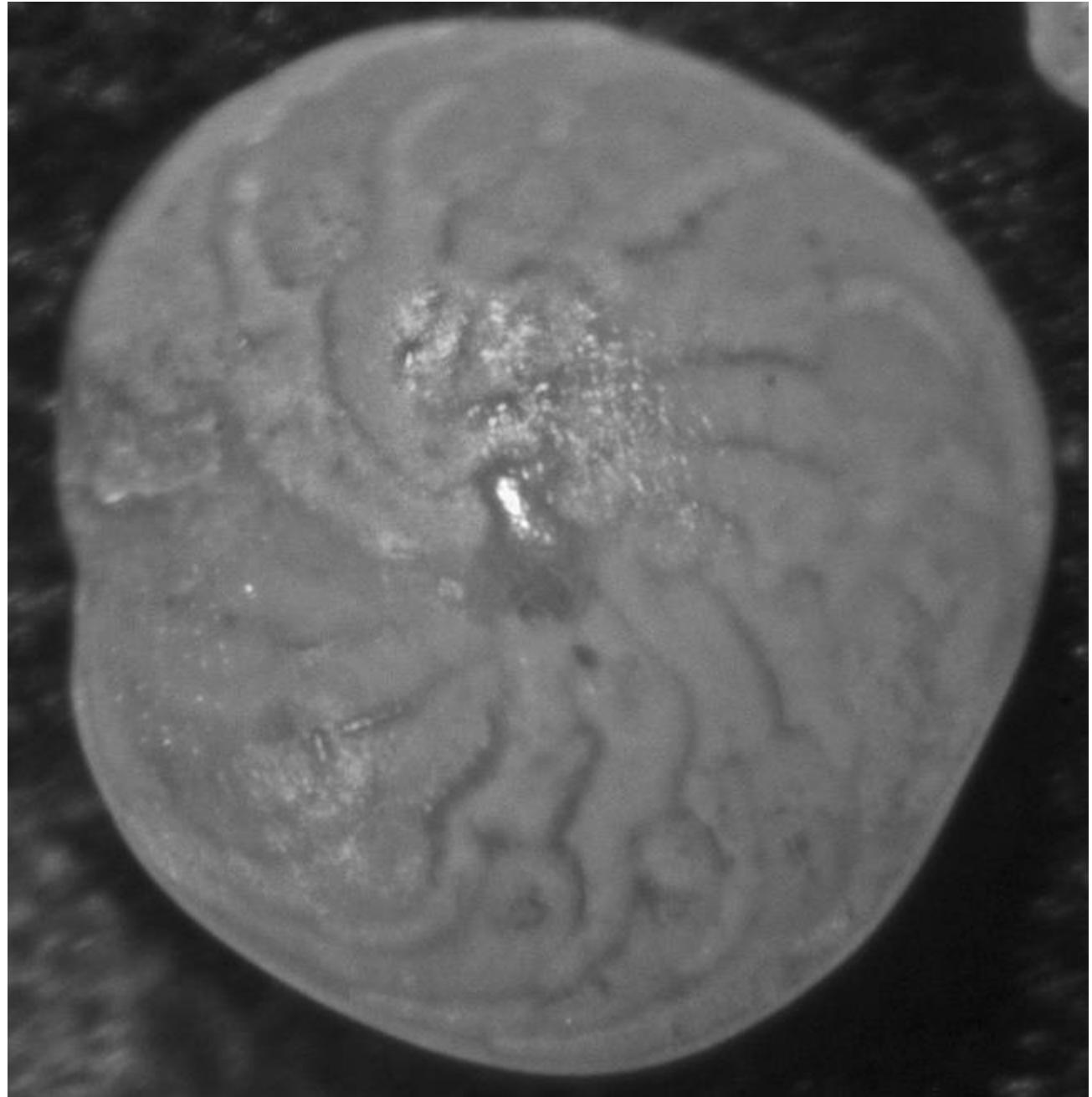
*Archaias angulatus*

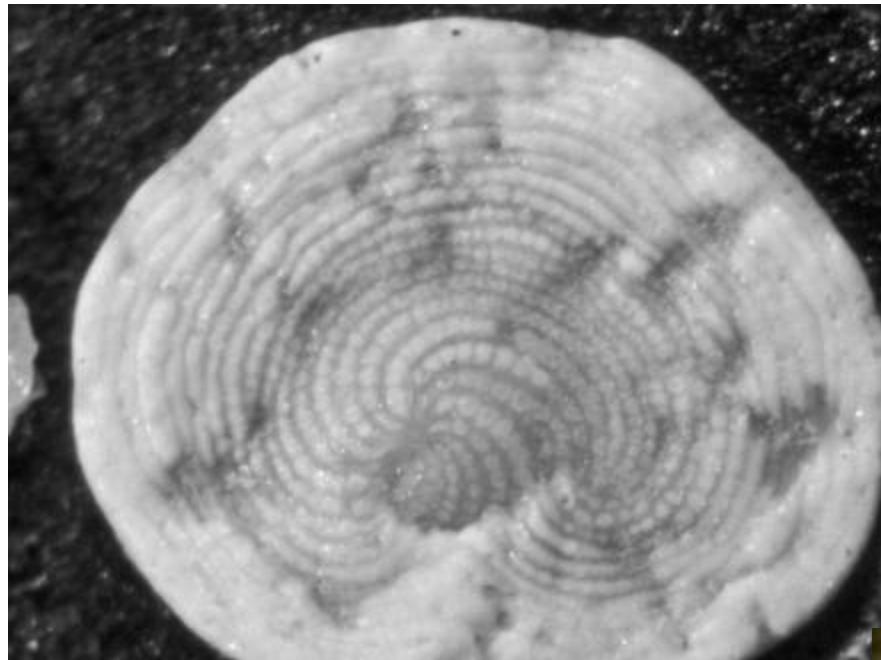


*Amphistegina lessonii*



***Amphistegina lessonii***



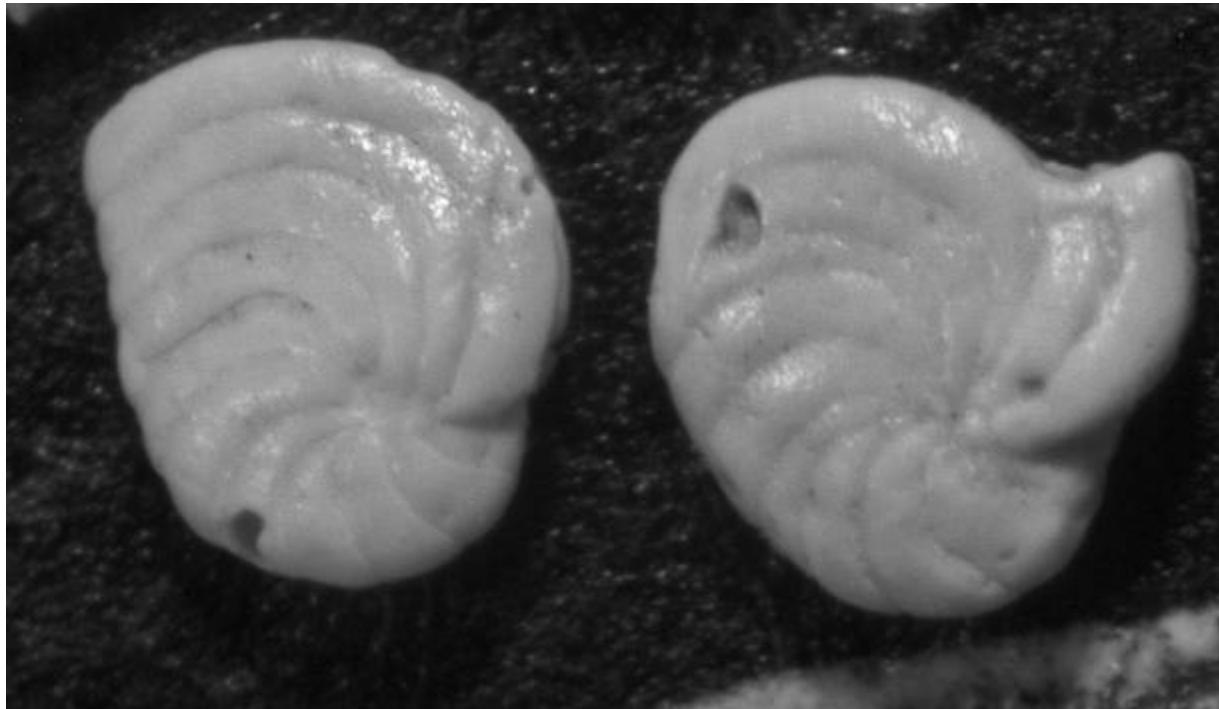


***Cyclorbiculina compressa-***  
**note greenish hue of**  
**zooxanthellae-**  
**photosynthetic alga**

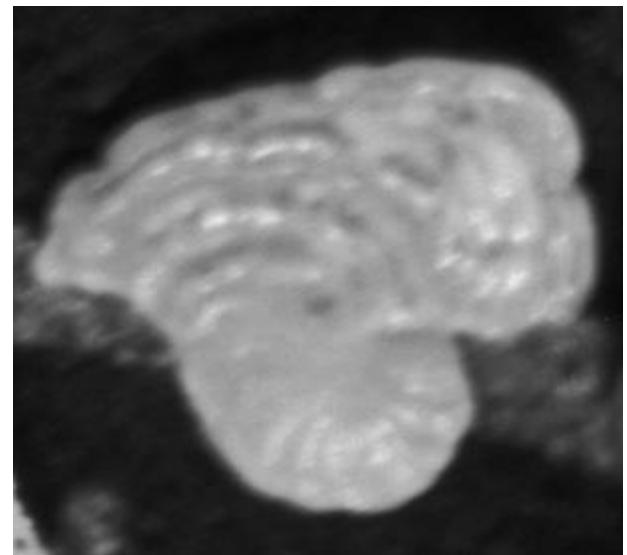


***Heterostegina  
depressa***



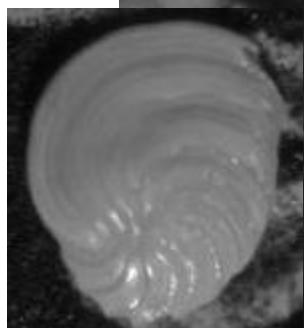


*Peneroplis bradyi*

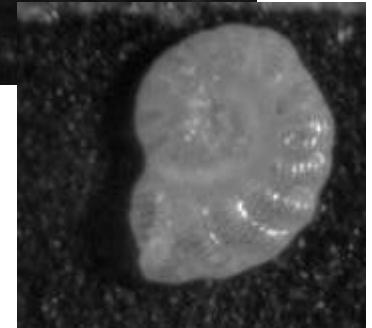
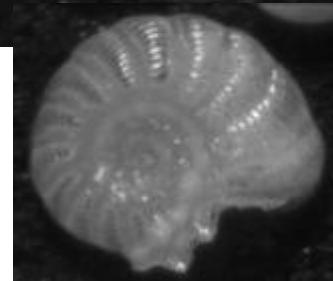


*Laevipeneroplis proteus*

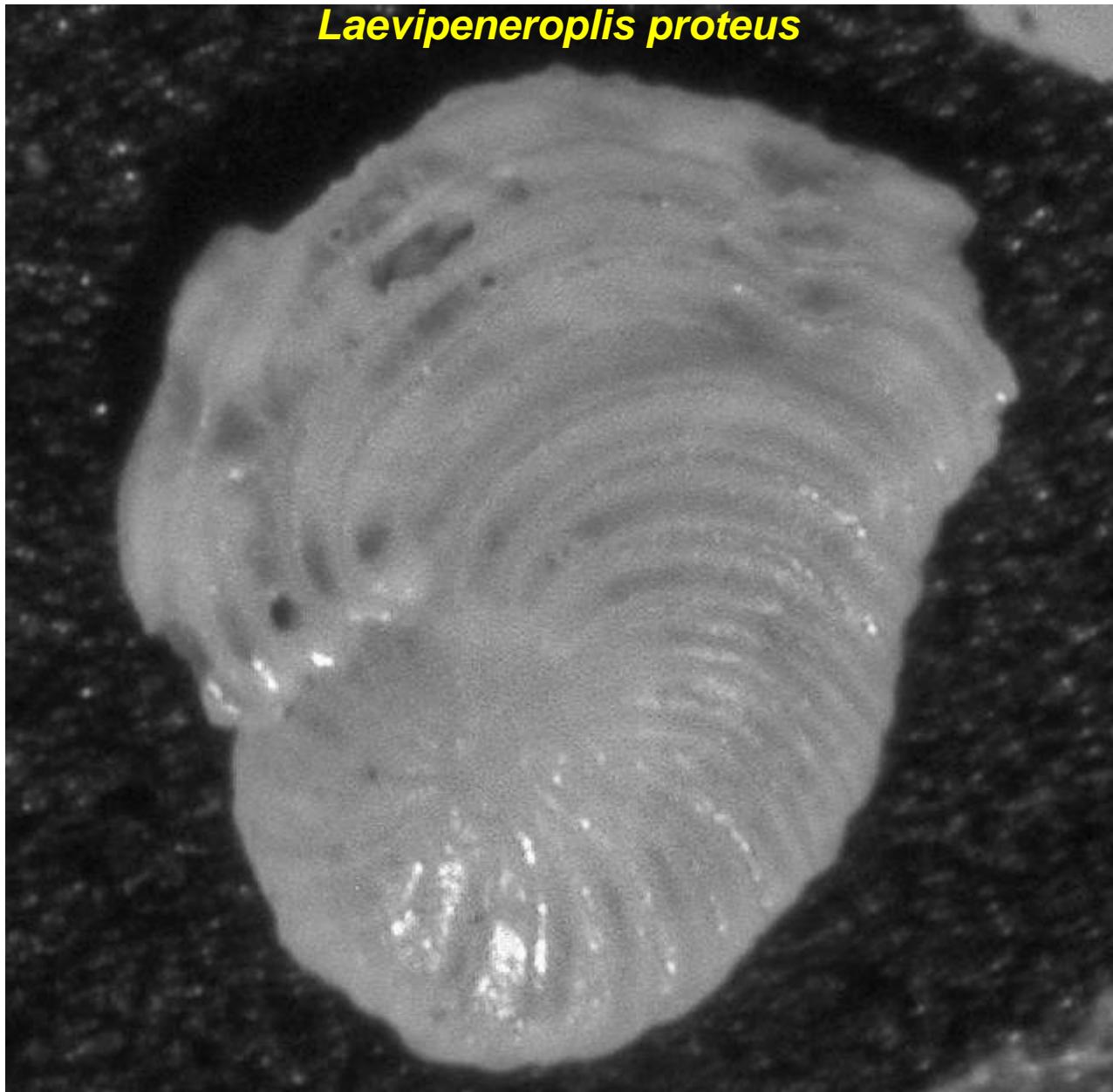
*Peneroplis pertusis*

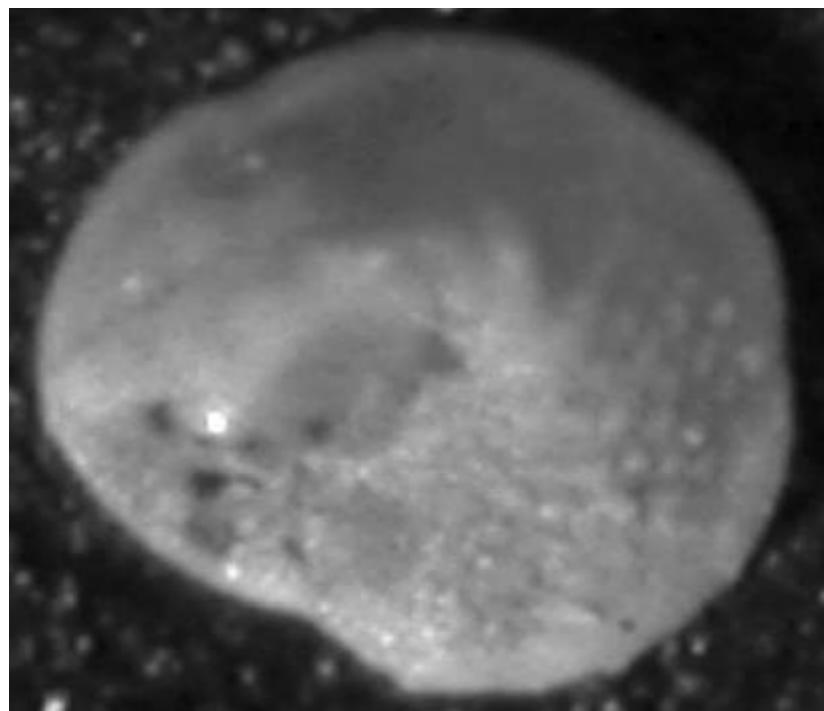
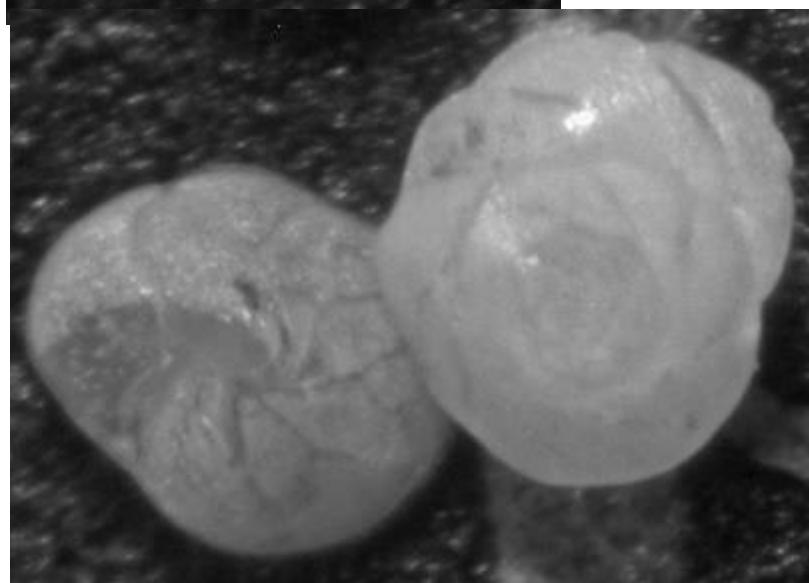
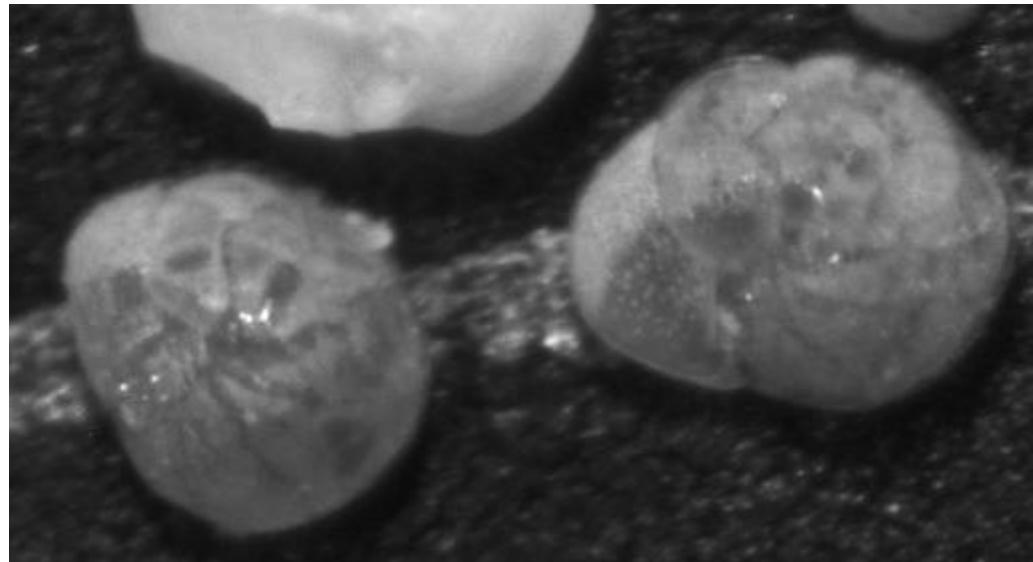


*Laevipeneroplis proteus*

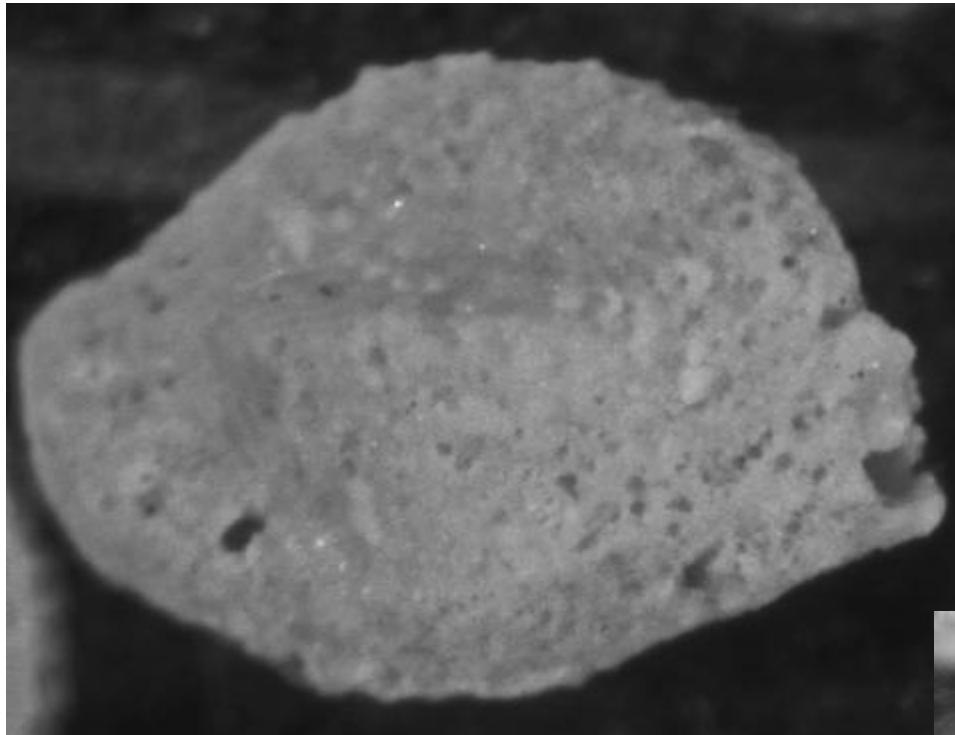


*Laevipeneroplis proteus*

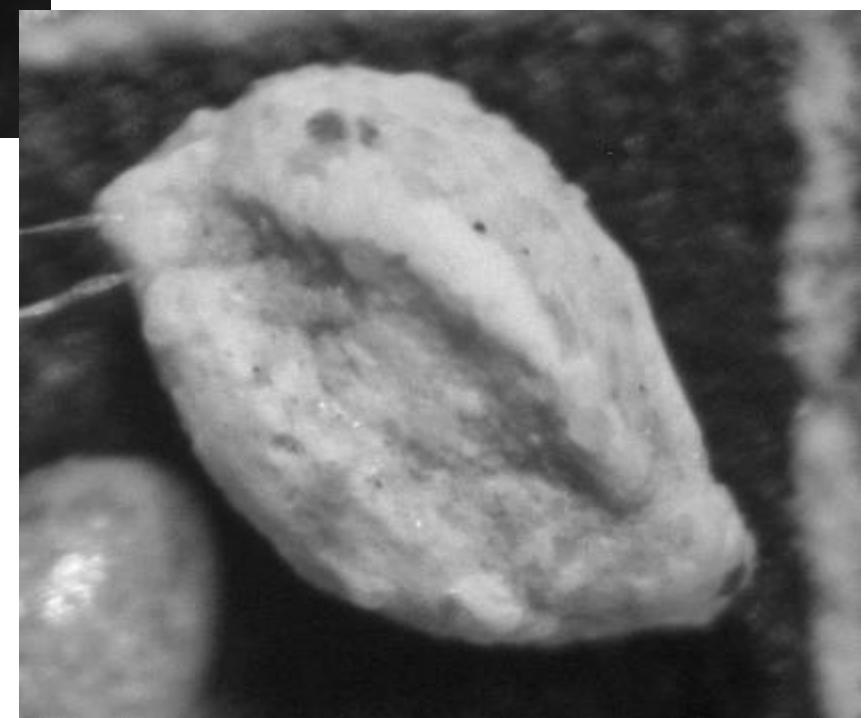




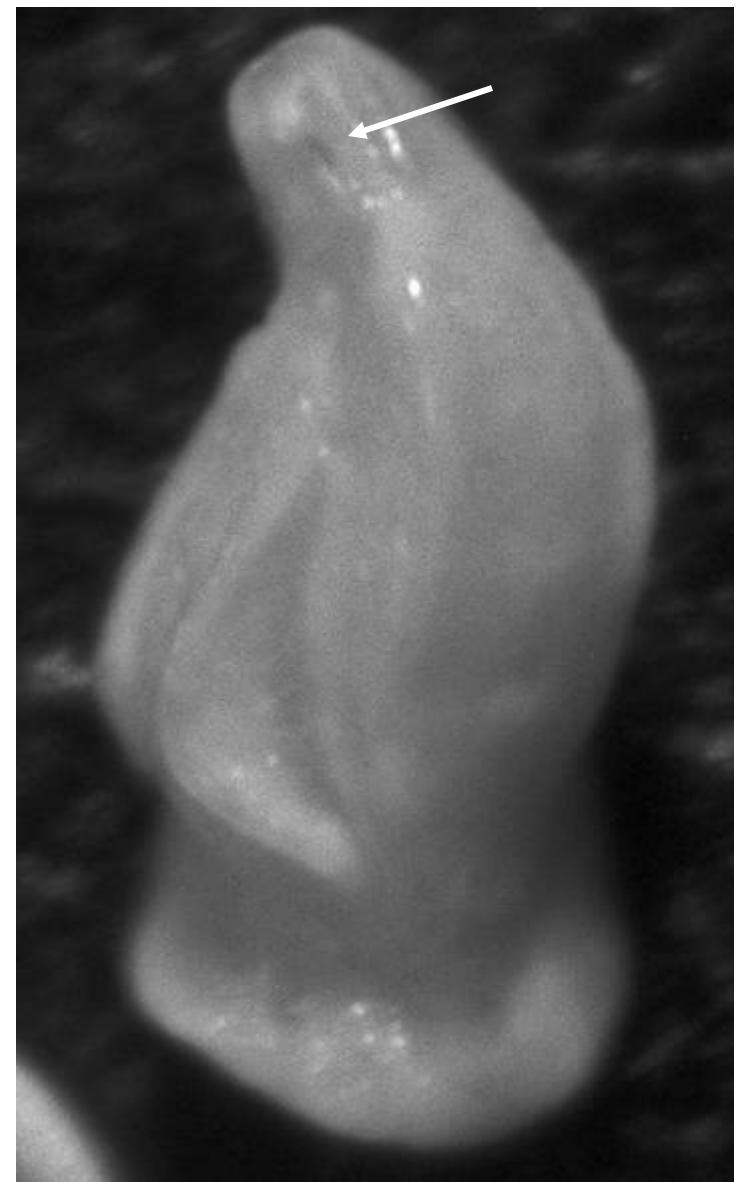
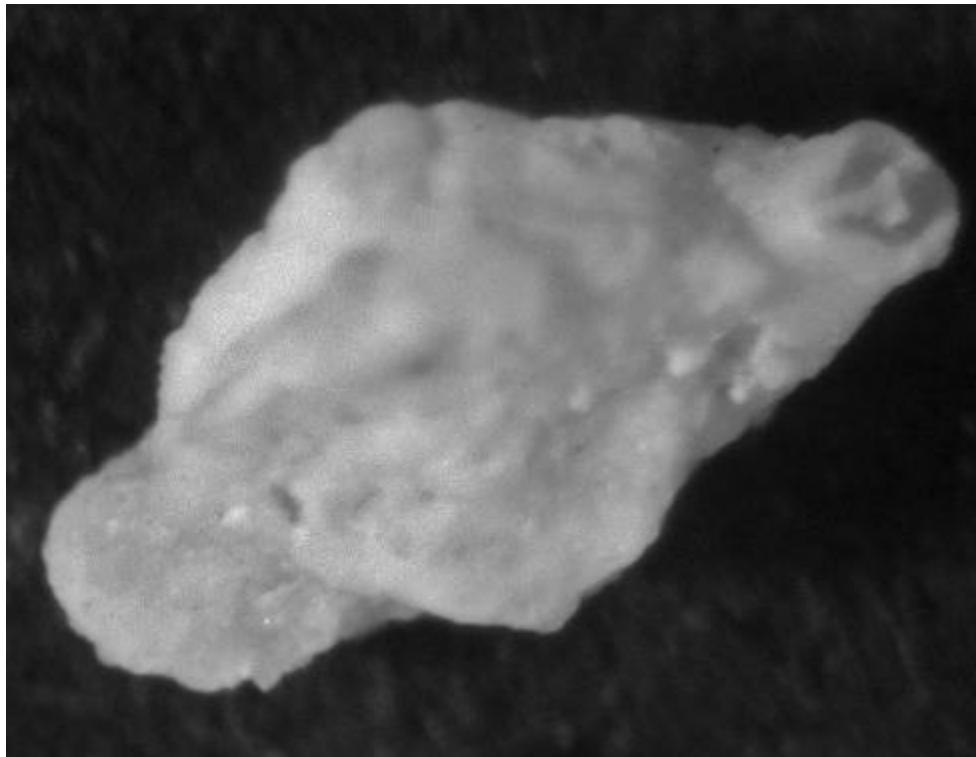
*Asterigerina carinata*



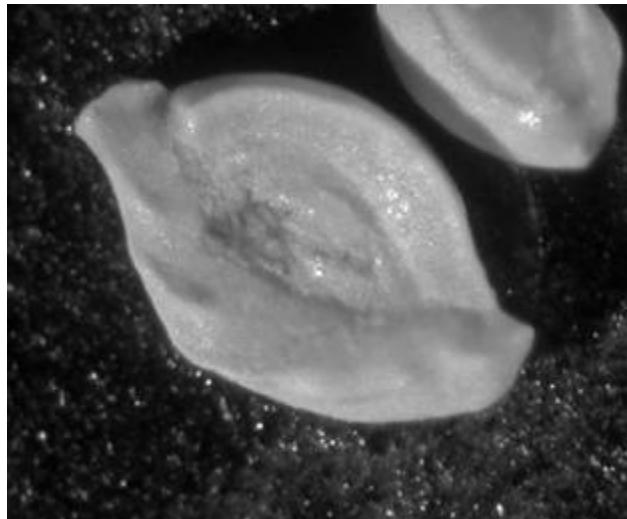
*Quinqueloculina  
agglutinans*



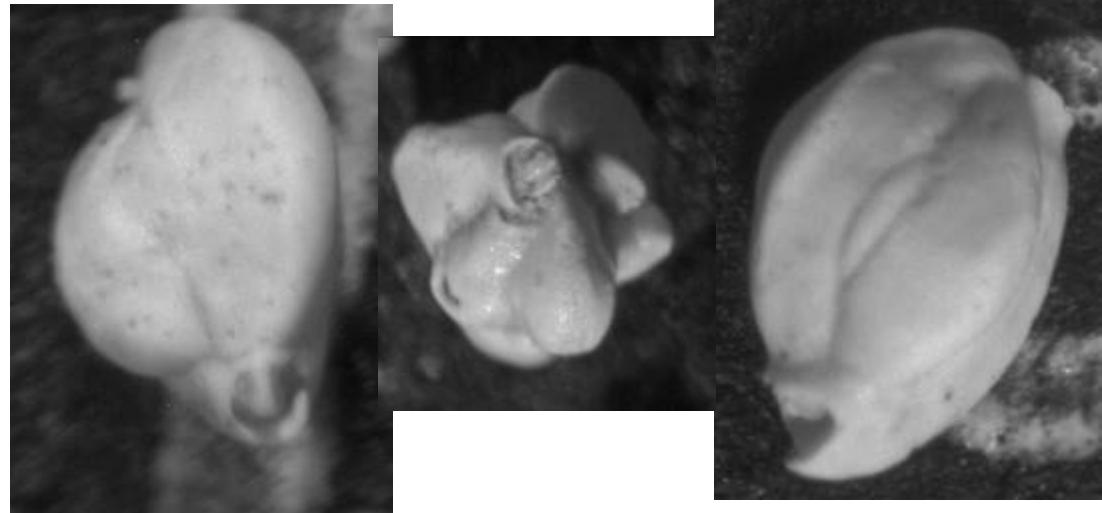
*Quinqueloculina bidentata*



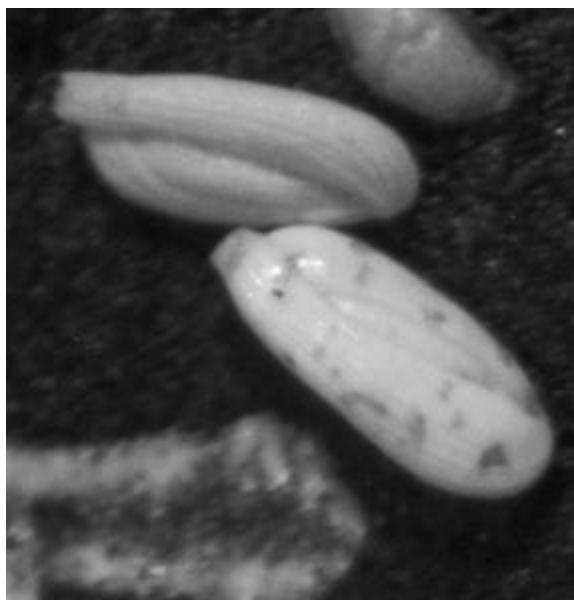
*Quinqueloculina polygona*



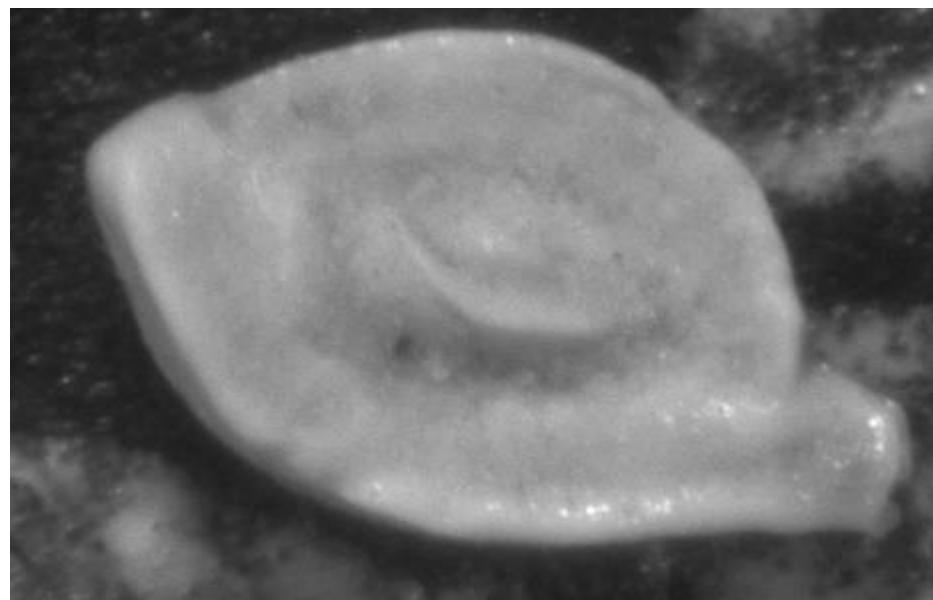
*Spiroloculina planulata*



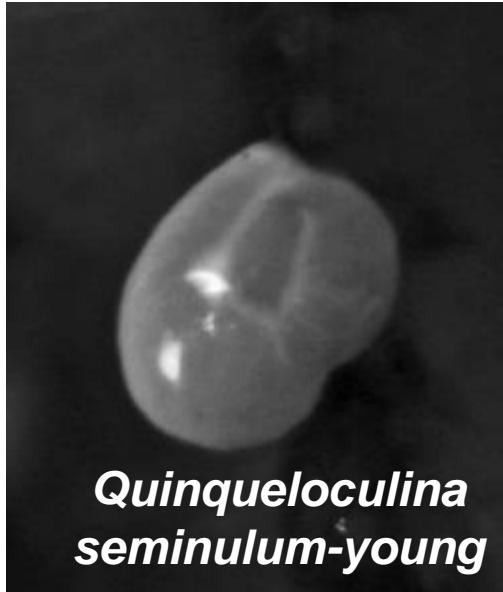
*Quinqueloculina lamarckiana*



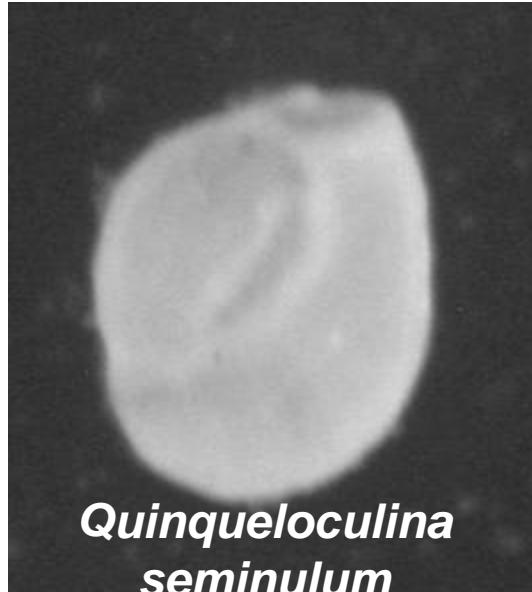
*Quinqueloculina  
poeyanum*



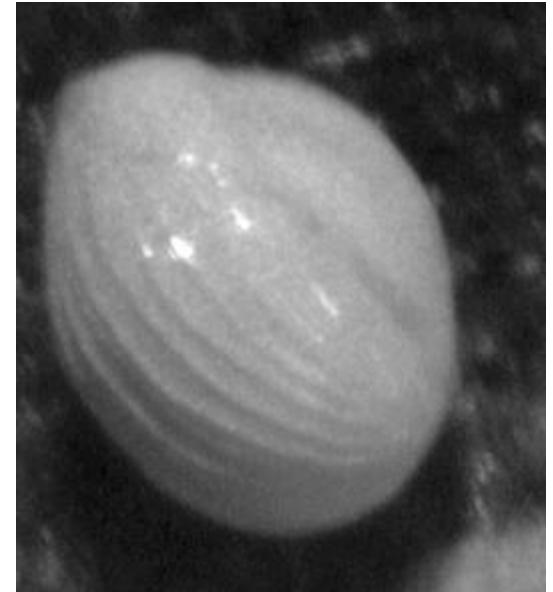
*Spiroloculina communis*



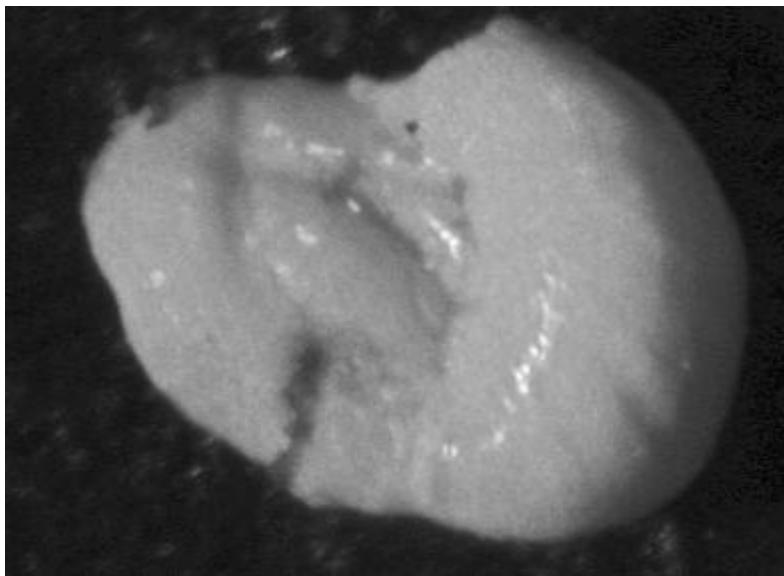
*Quinqueloculina  
seminulum-young*



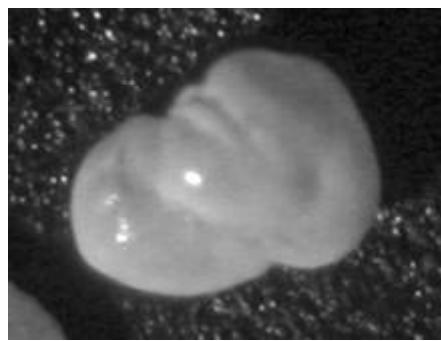
*Quinqueloculina  
seminulum*



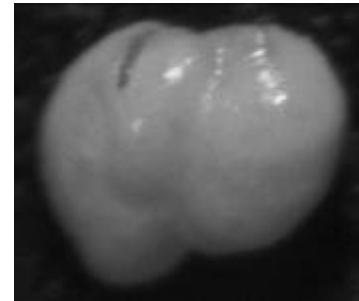
*Pyrgo comata*



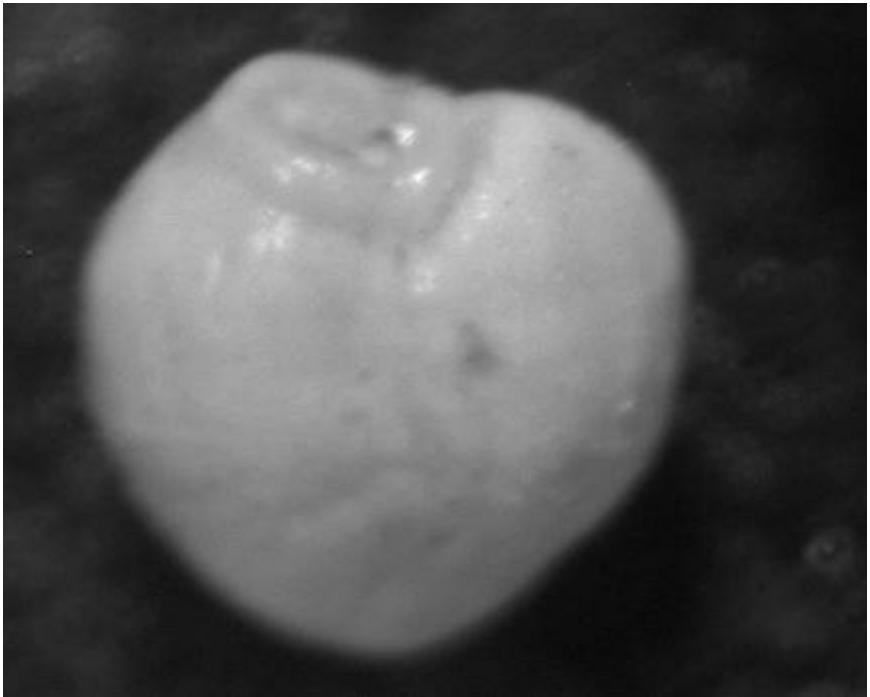
*Triloculina sidebottomi*



*Miliolinella labiosa*

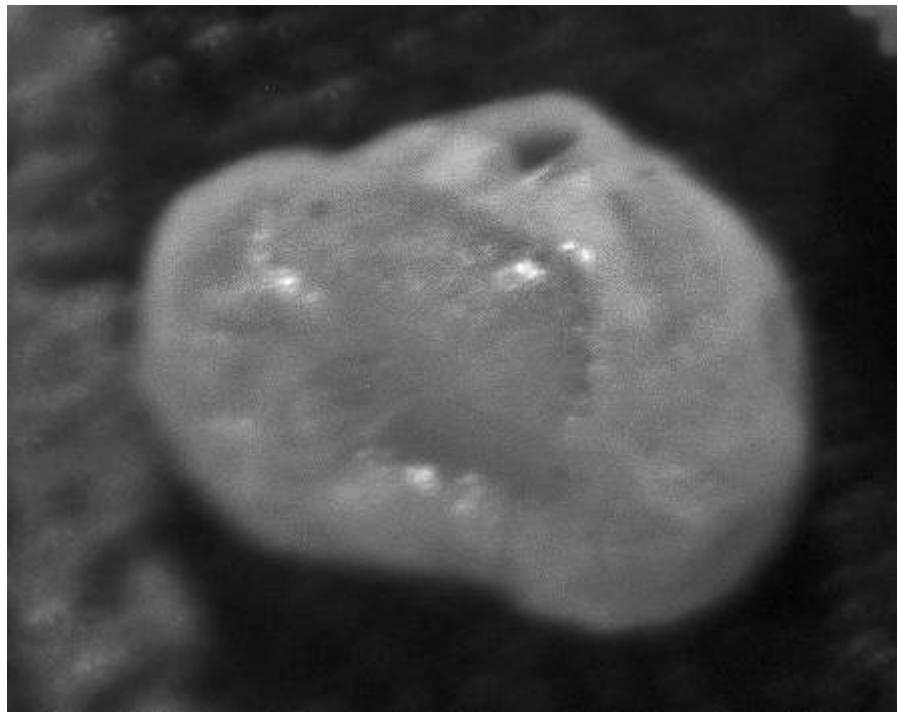


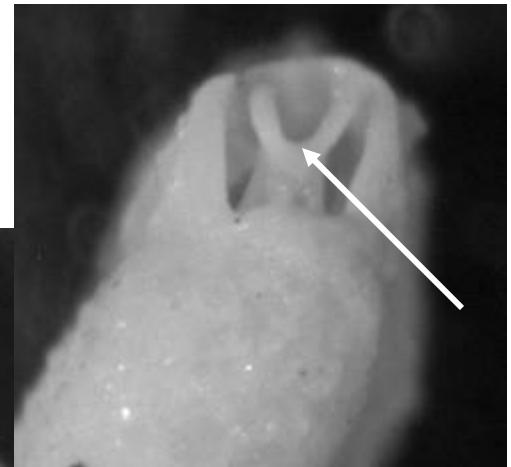
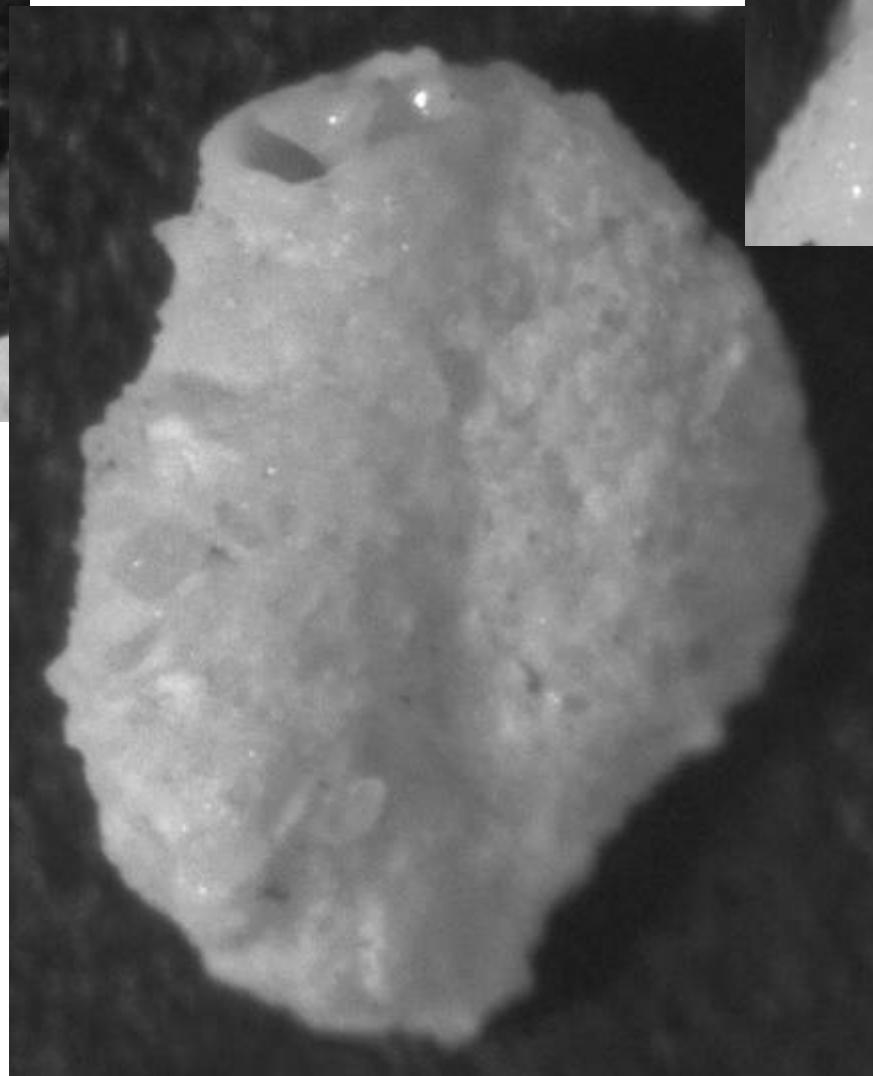
*Quinqueloculina  
seminulum*



***Triloculina rotunda***

***Triloculina sidebottomi***

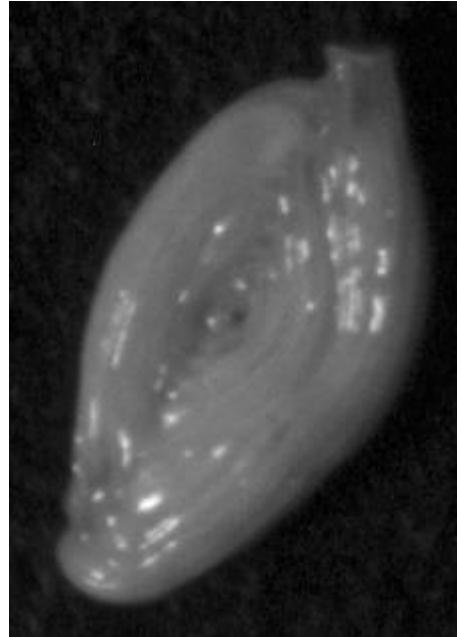




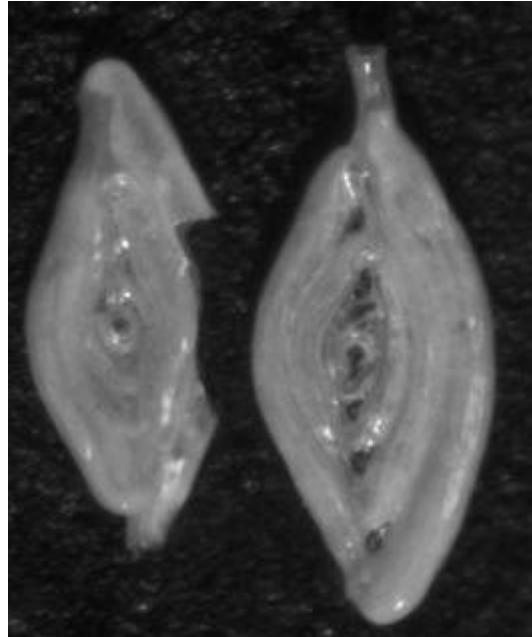
*Quinqueloculina  
bradyana*



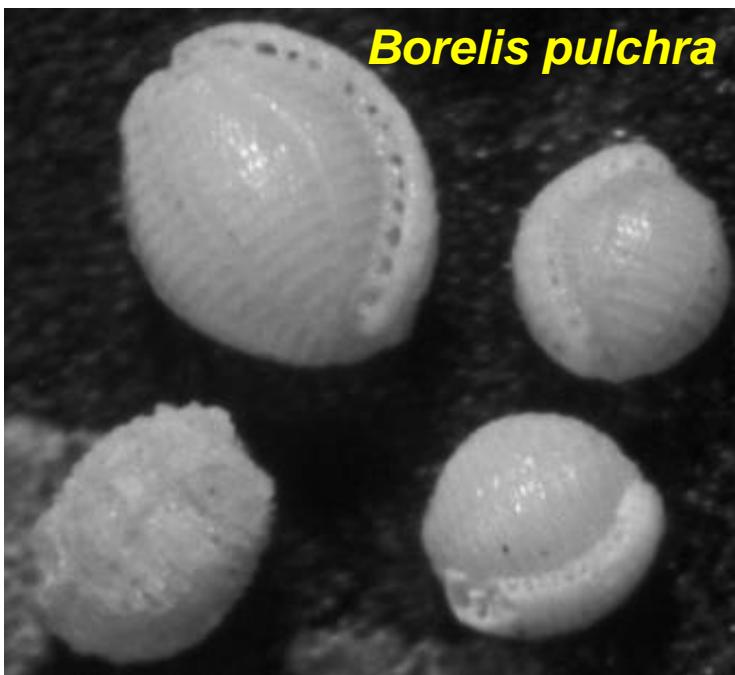
*Triloculina carinata*



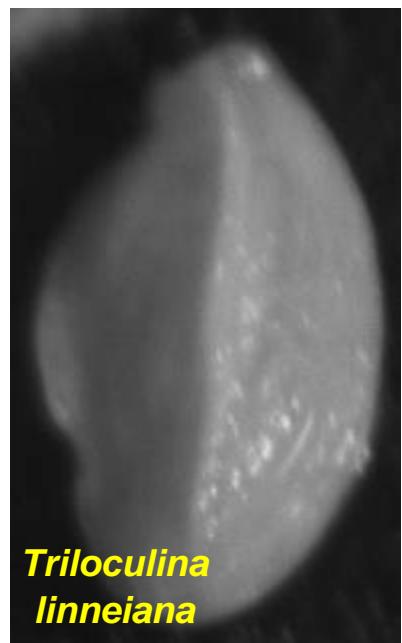
*Spiroloculina angulata*



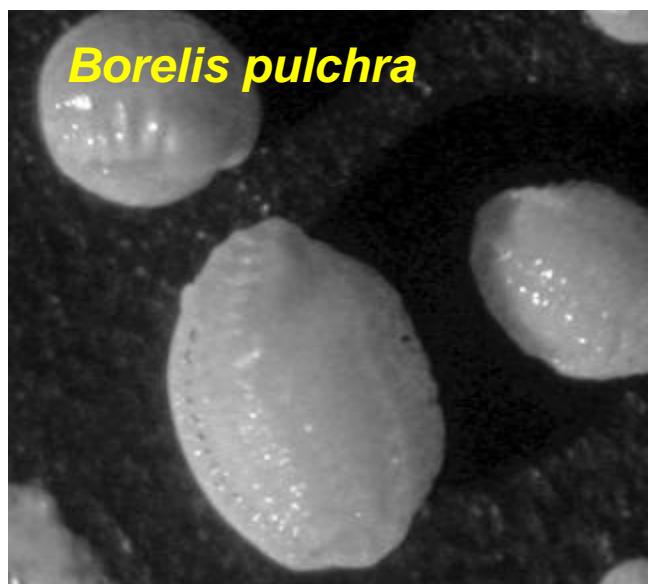
*S. antillarum*



*Borelis pulchra*

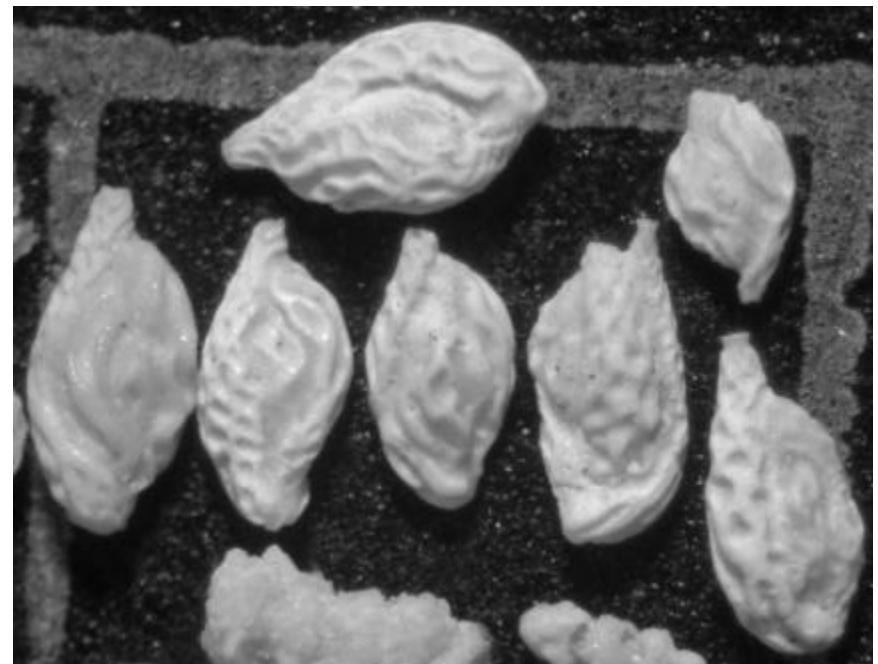
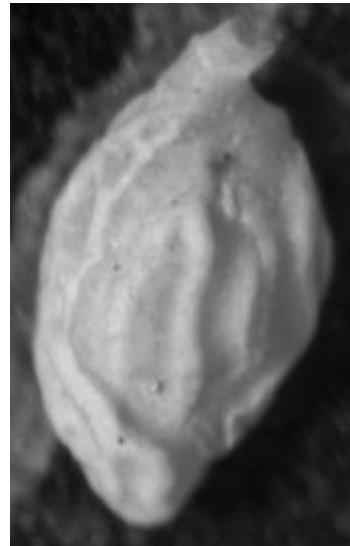
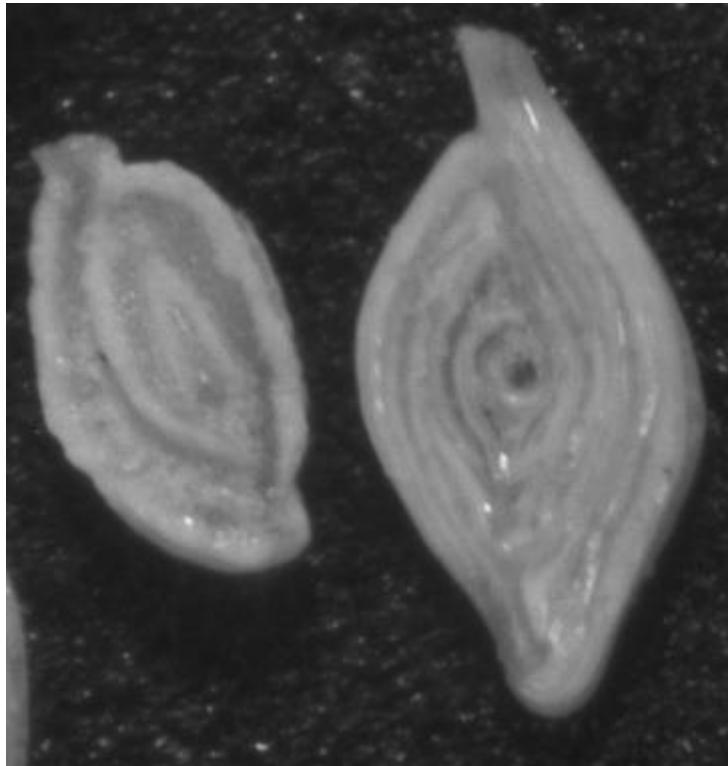


*Triloculina  
linneiana*

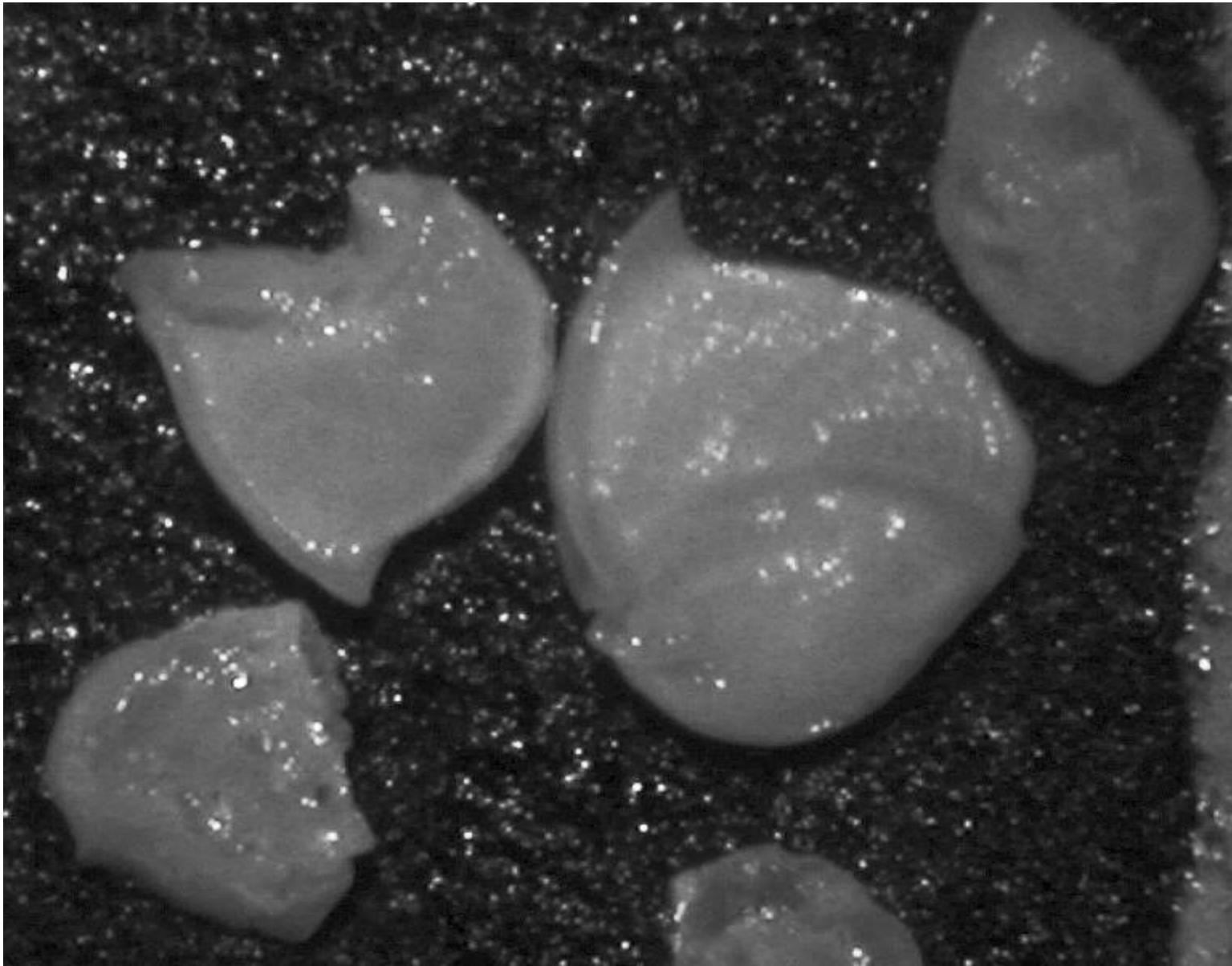


*Borelis pulchra*

*Spiroloculina:*  
*communis*    *antillarum*

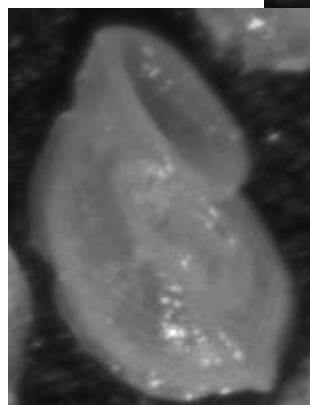
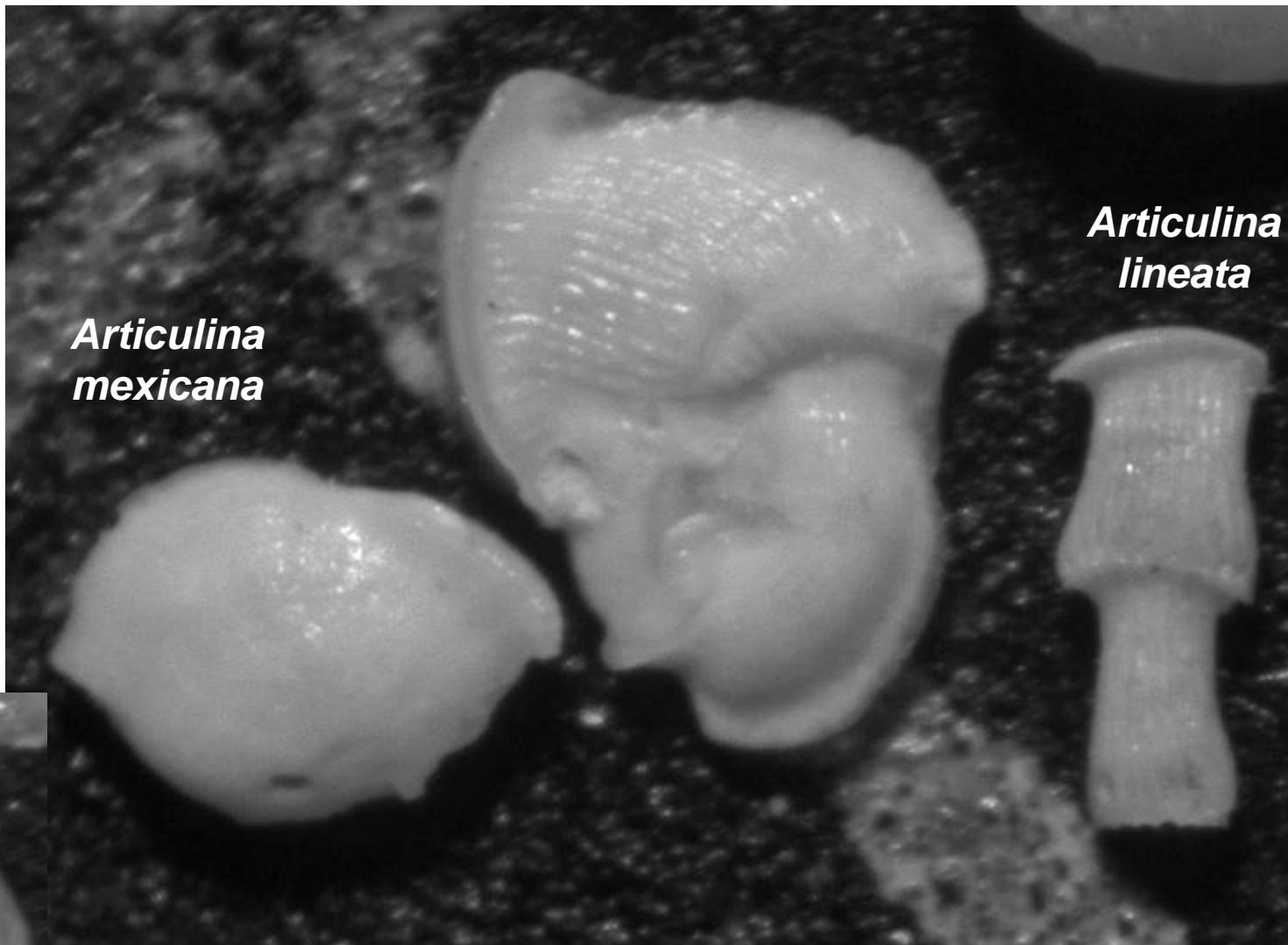


*Quinqueloculina*  
*tricarinata*



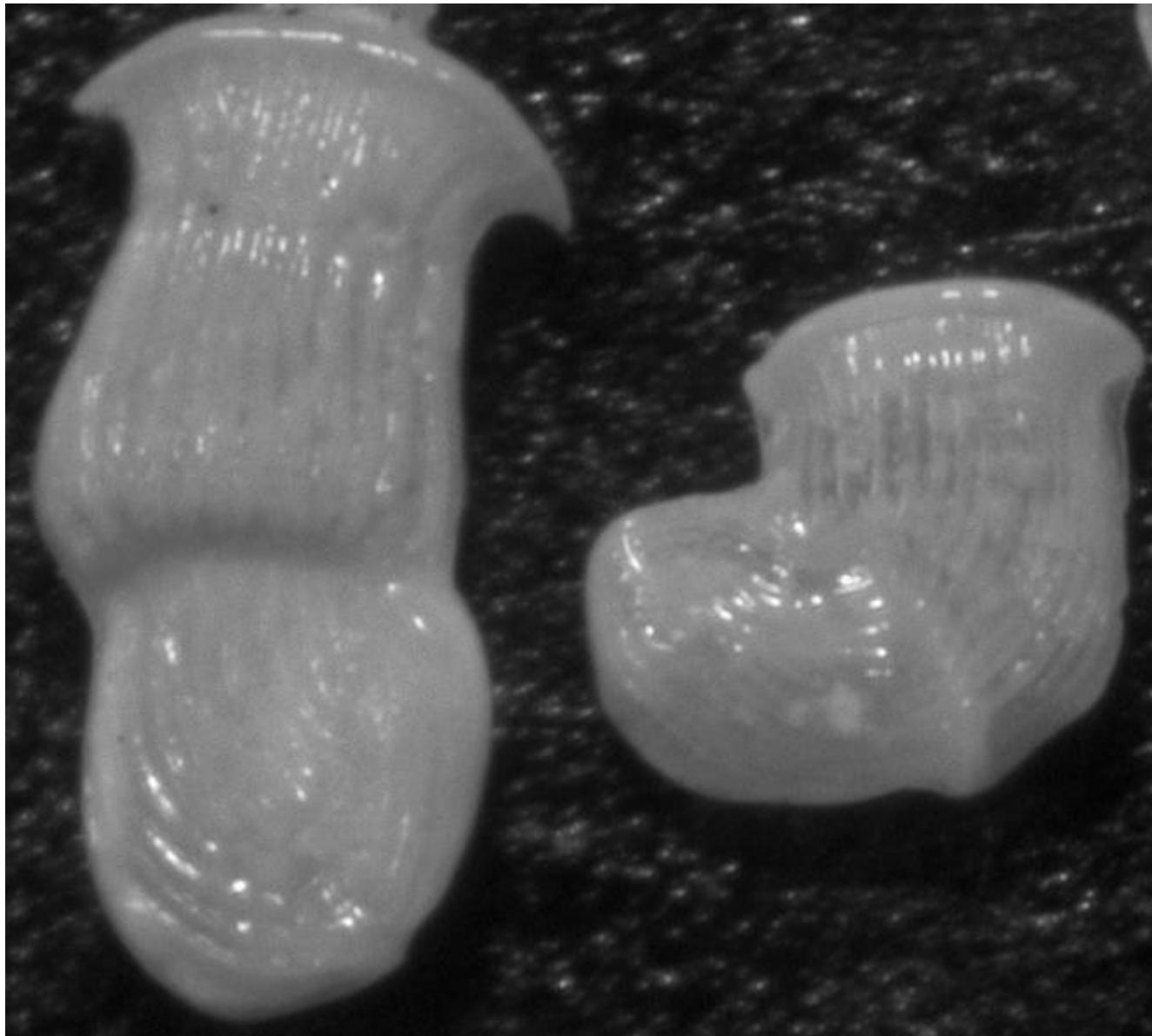
*Articulina pacifica*

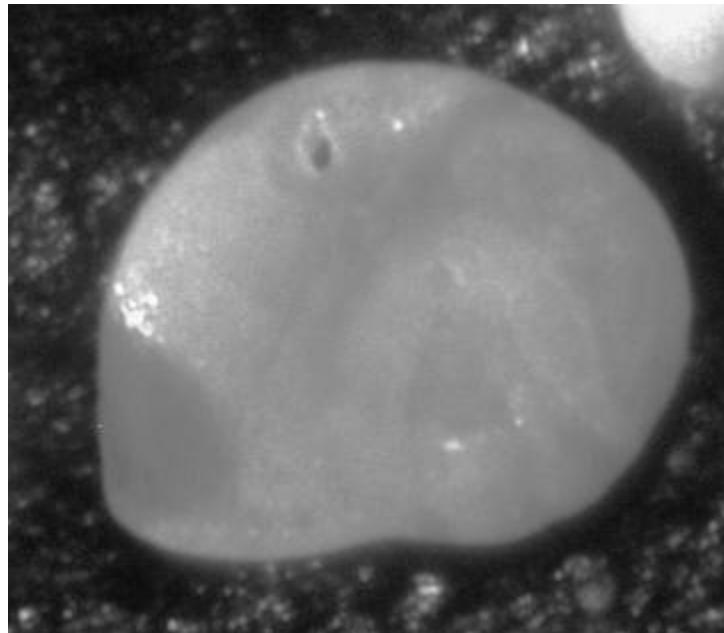
***Nodobaculariella cassis***



*Articulina mucronata*

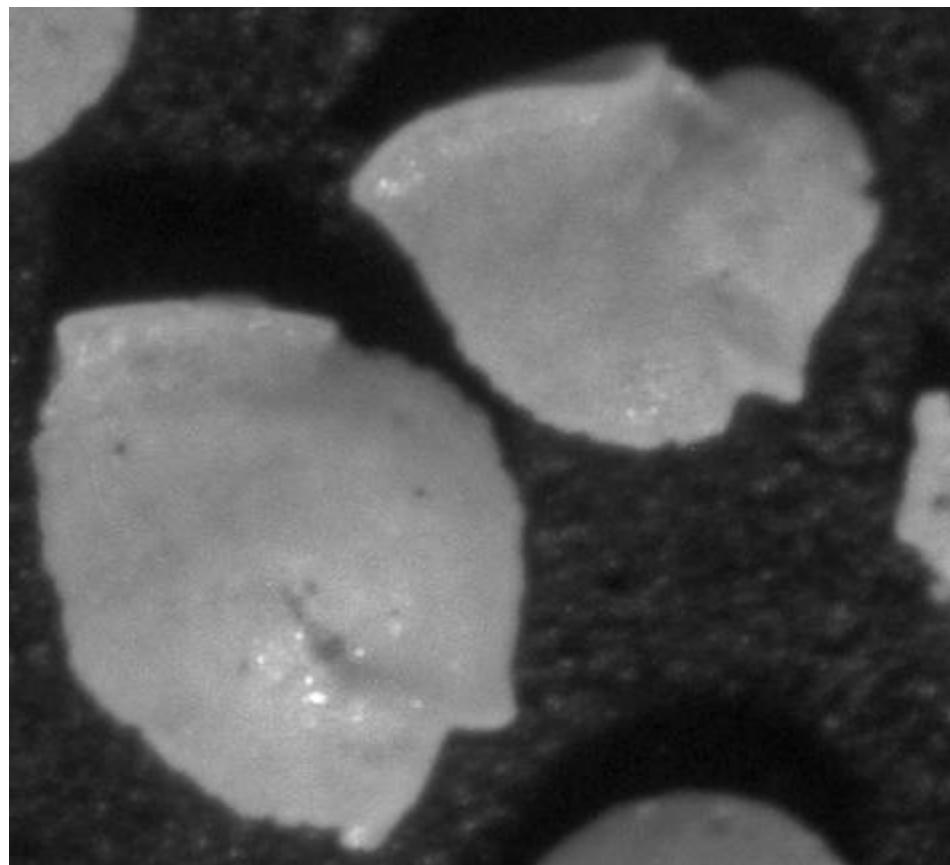
*Nodobaculariella sp.*



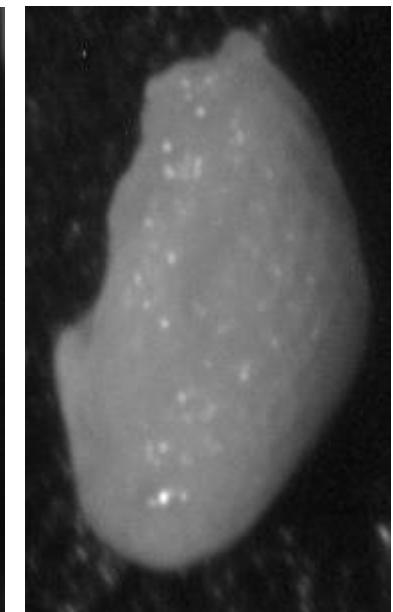
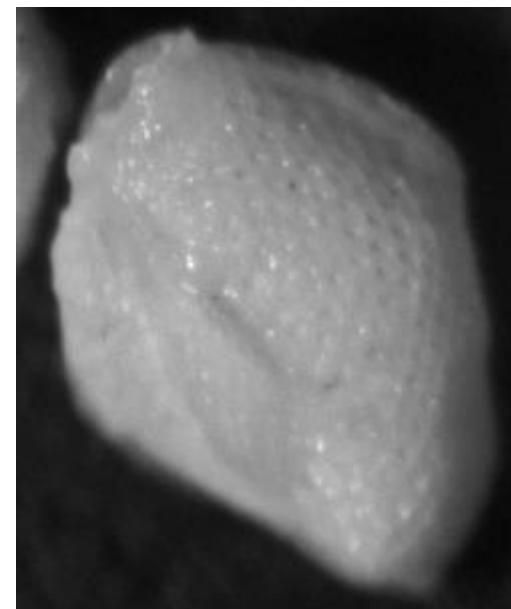
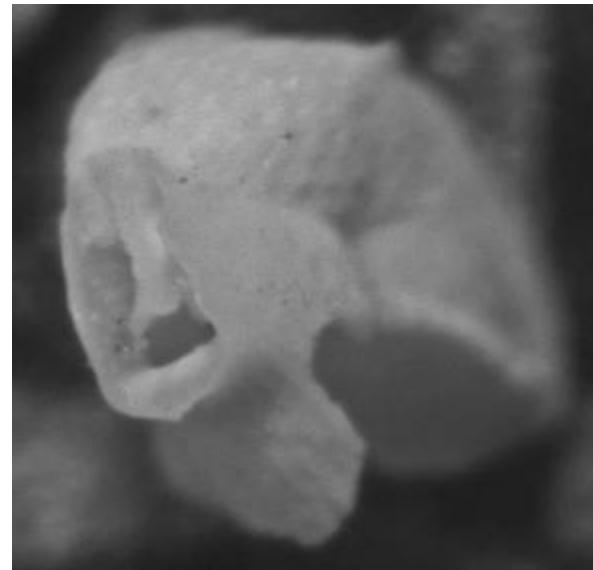


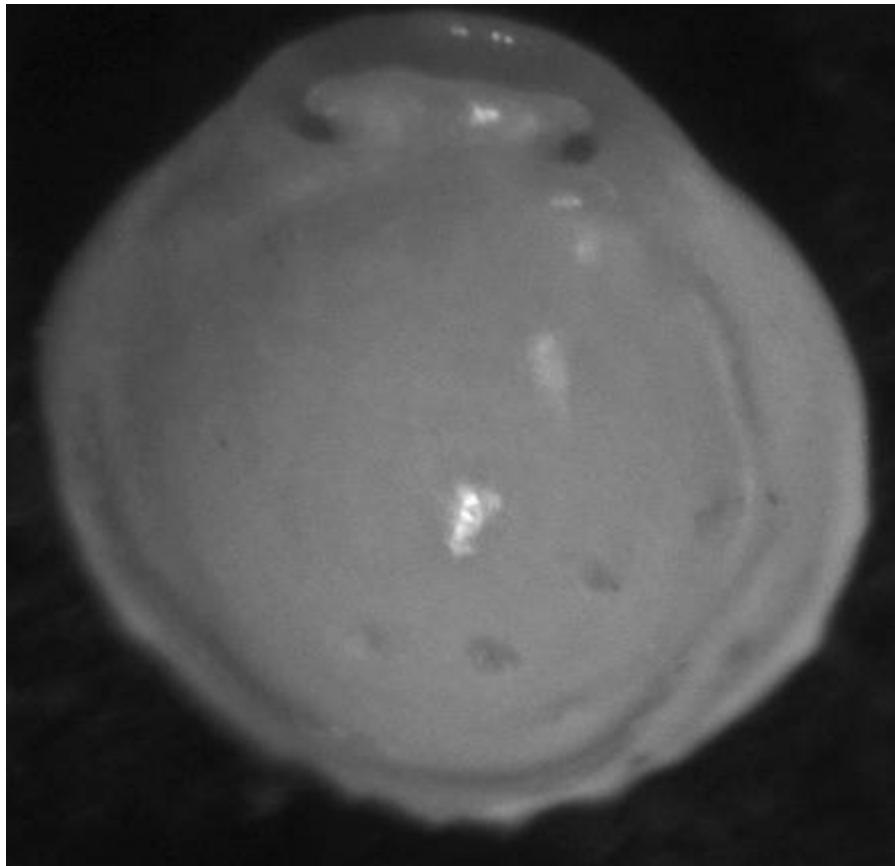
***Hauerina* sp.**

***Articulina pacifica***



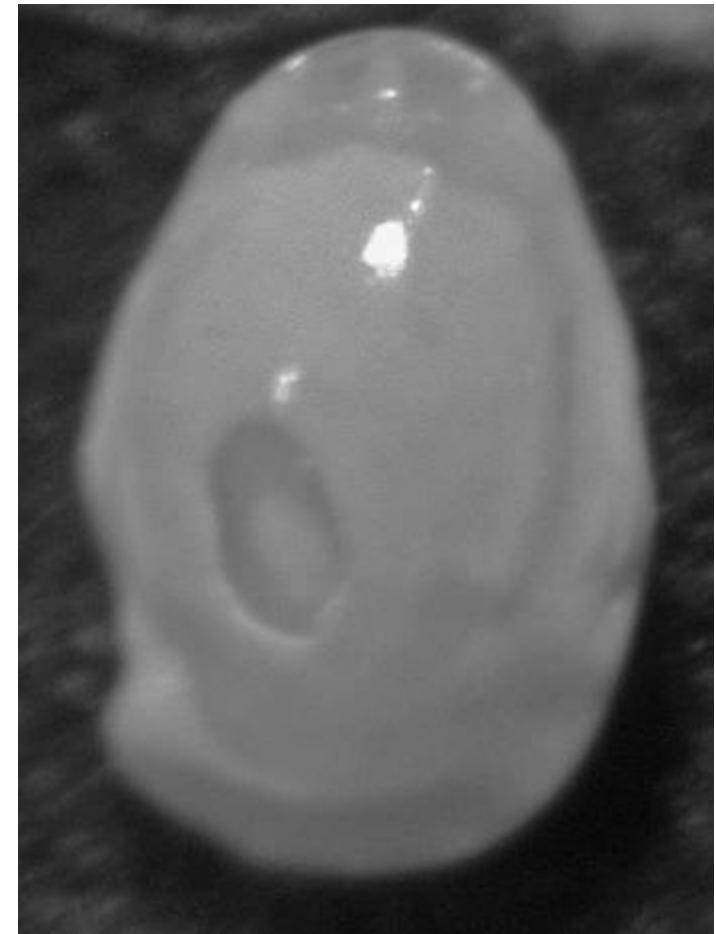
*Triloculina bicarinata*



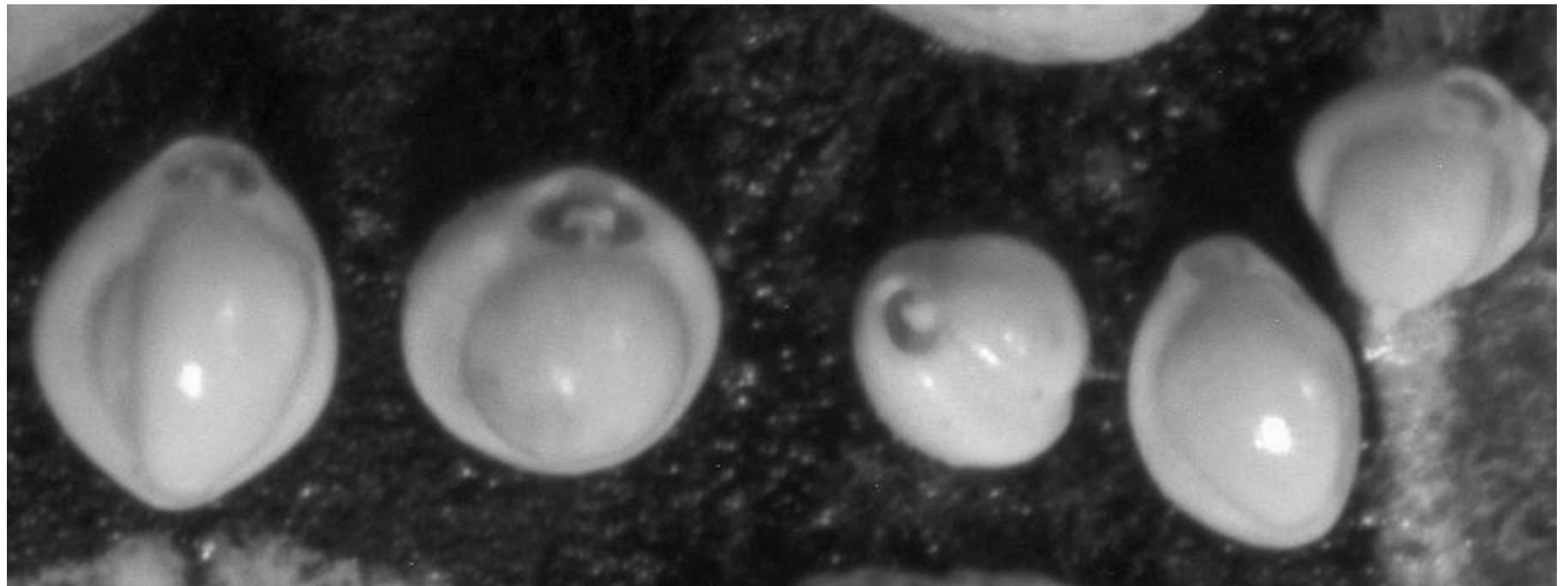


*Pyrgo fornasinii*

*Pyrgo denticulata*

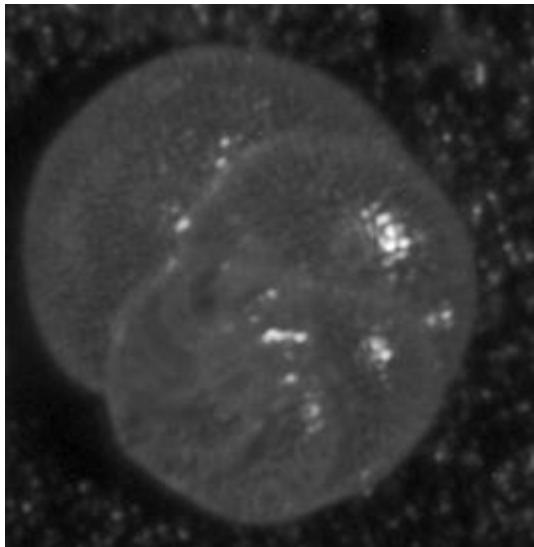


*Pyrgo murrhina*

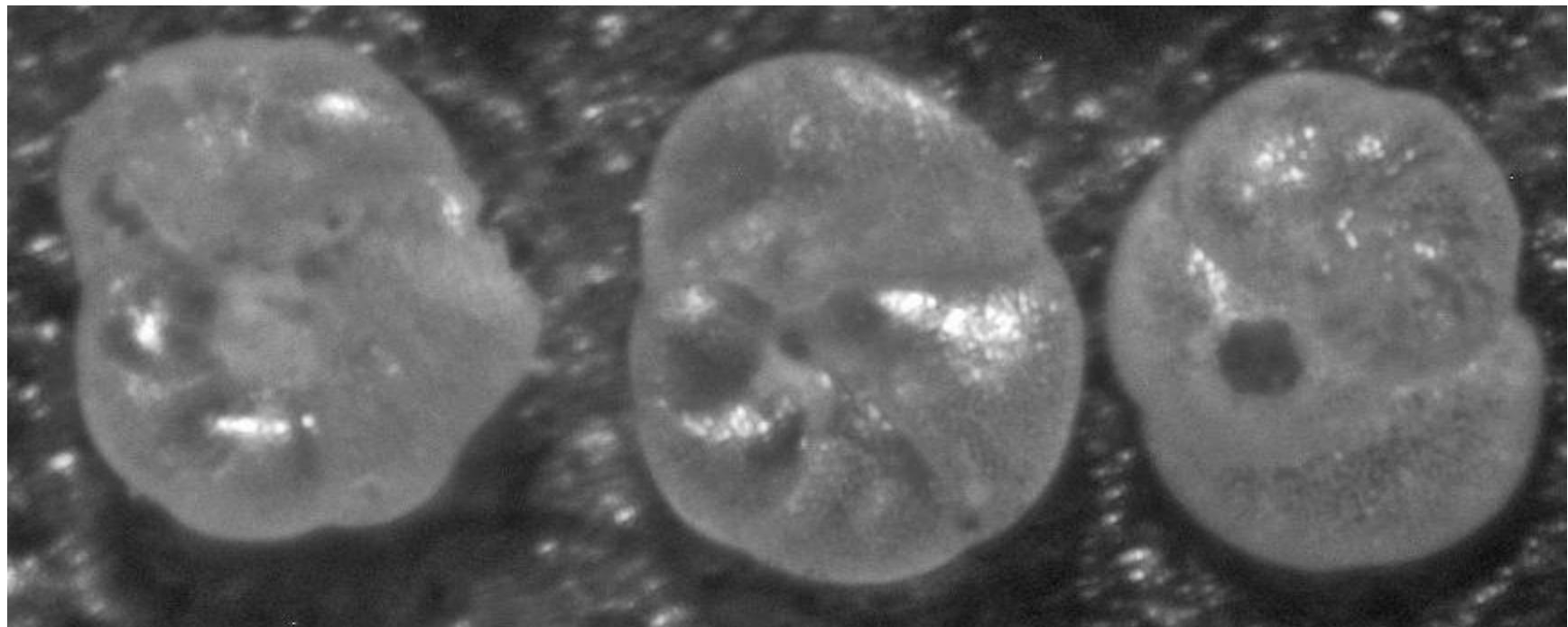


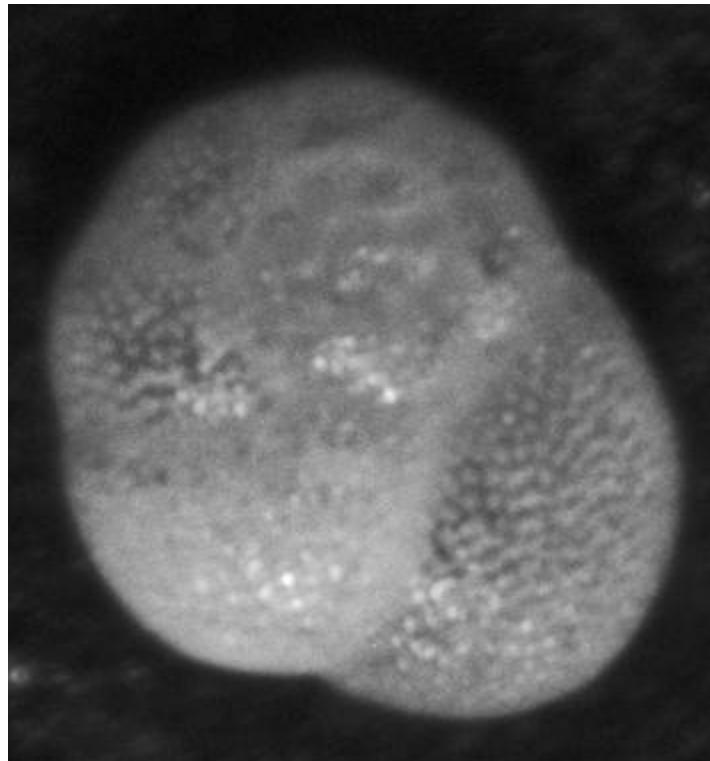
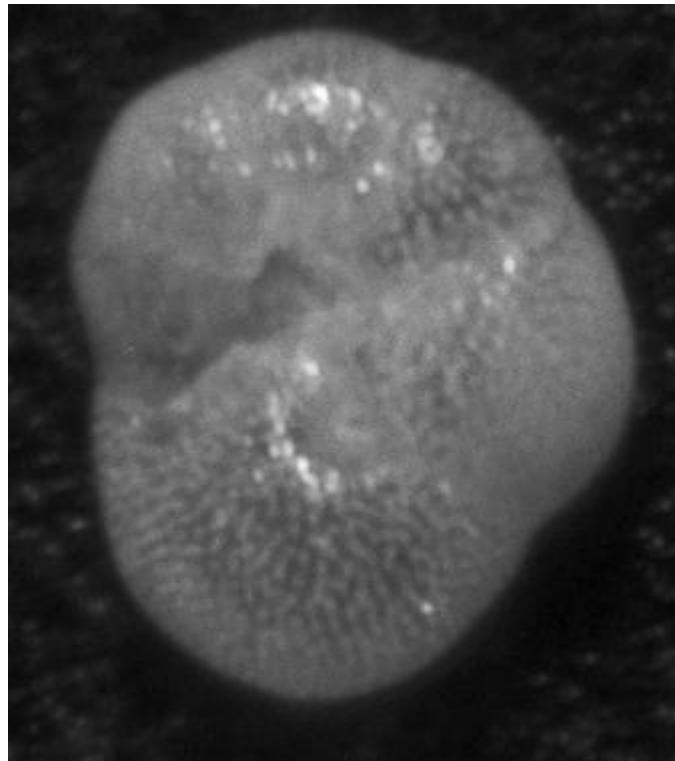
*Quinqueloculina  
bosciana*

*Quinqueloculina  
bosciana*

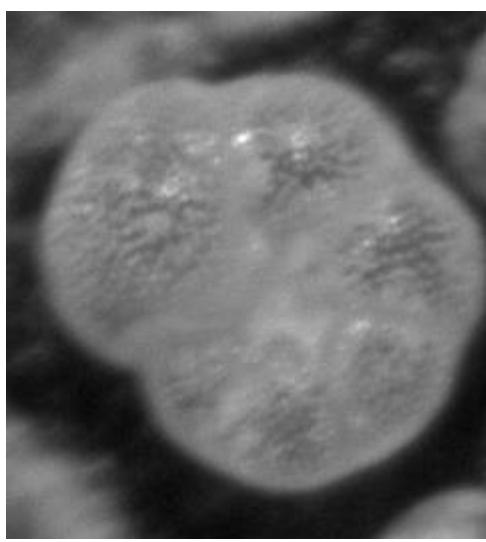
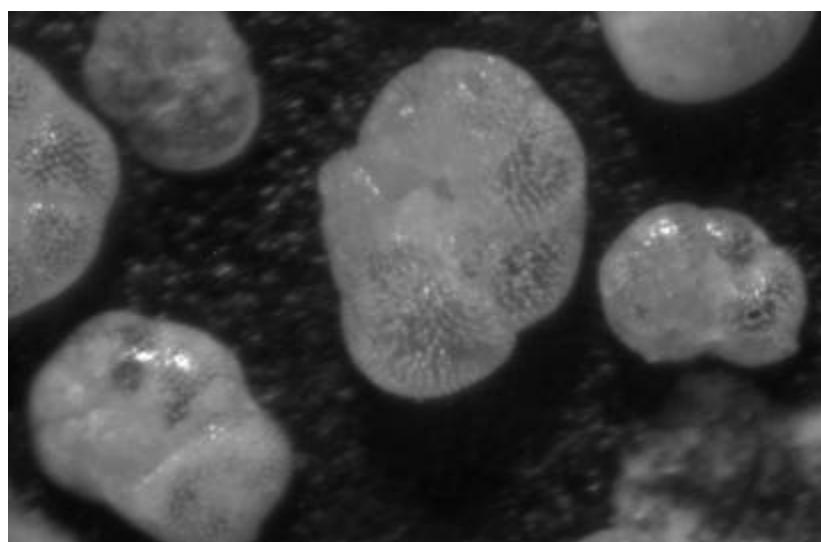


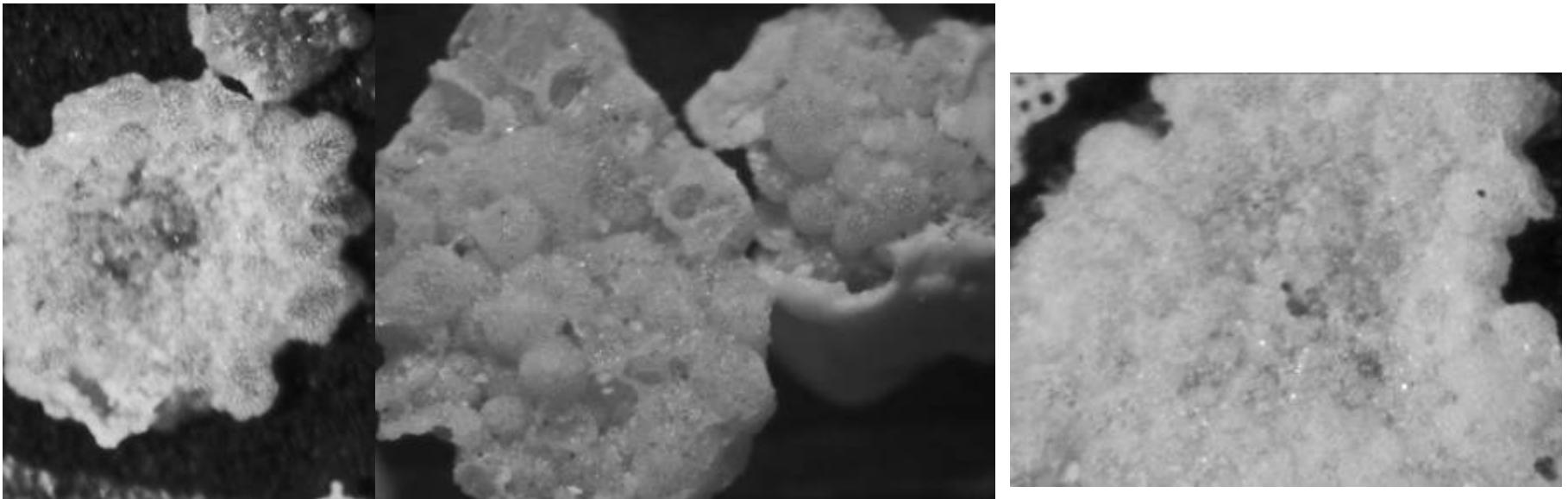
***Rosalina subaraucana***



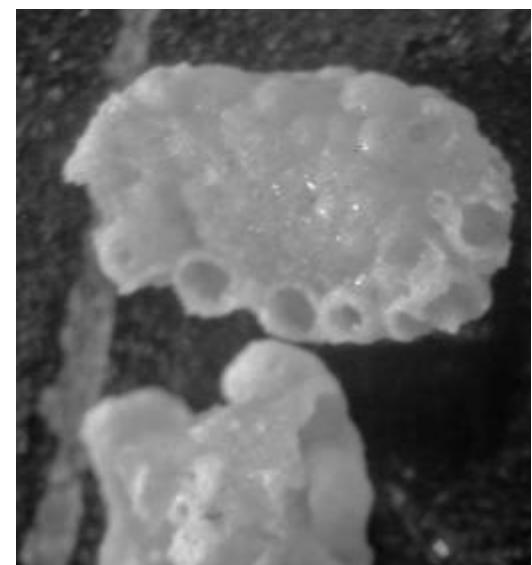
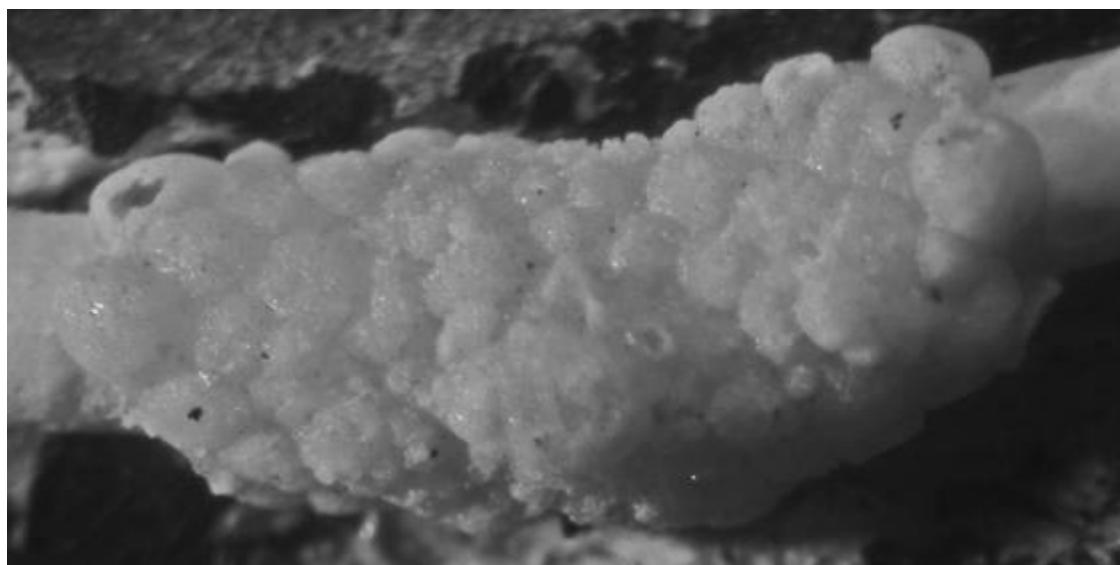


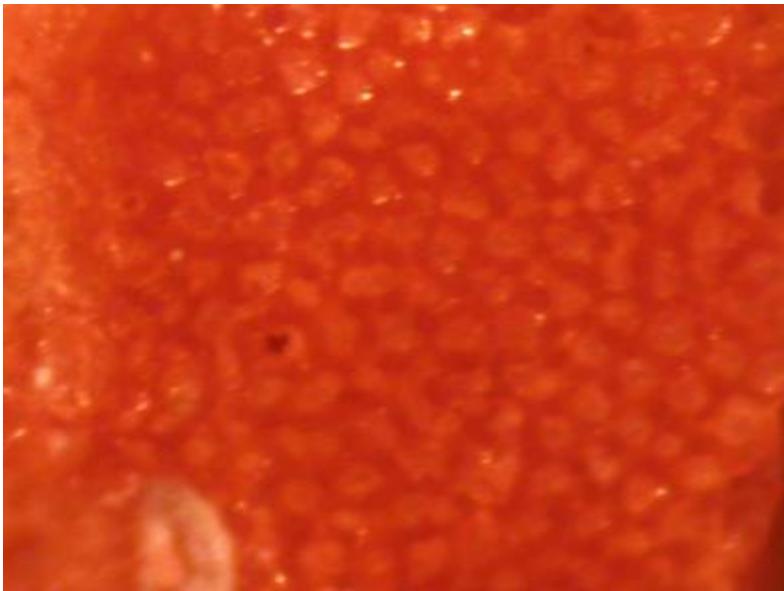
*Rosalina  
floridana*



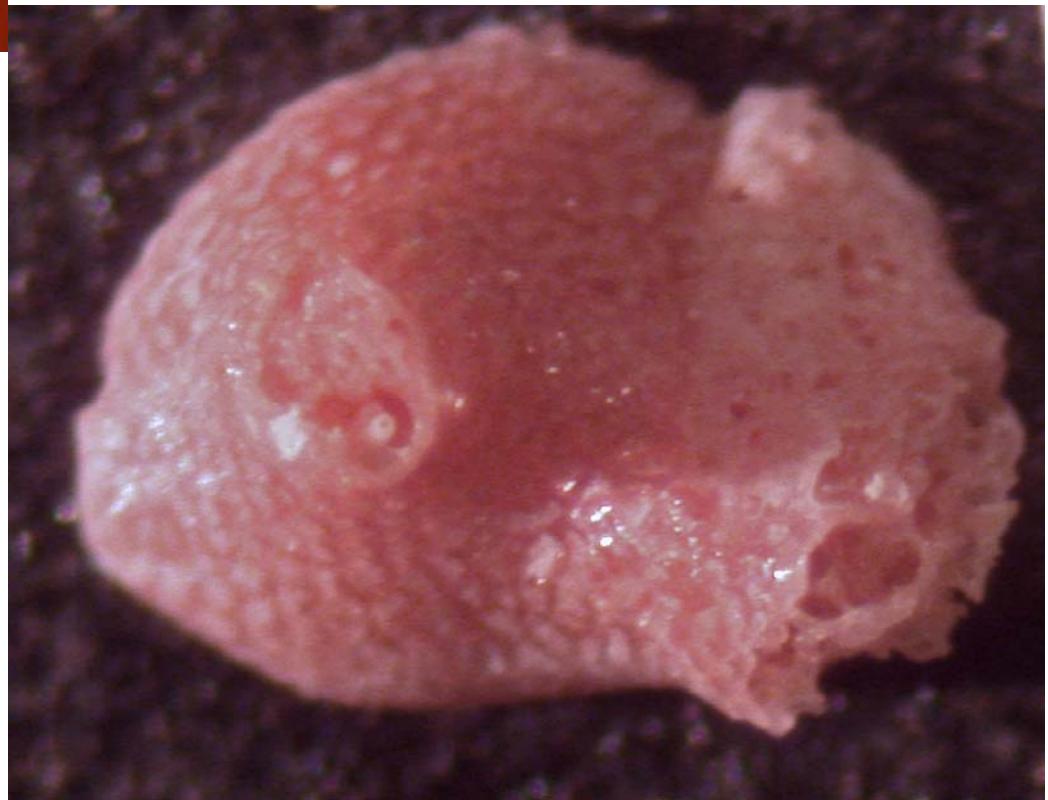


*Planorbulina mediterraneensis*



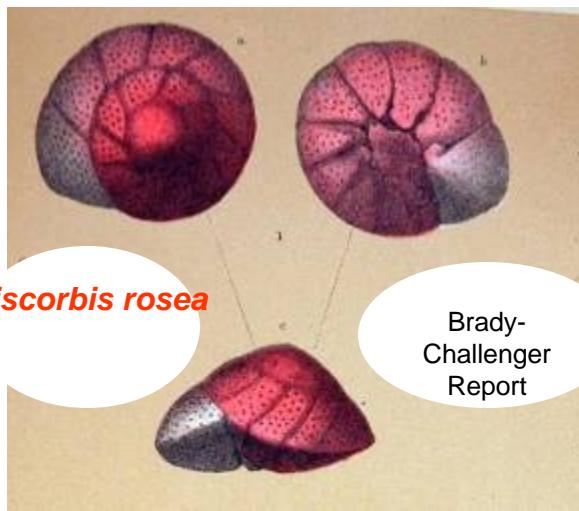


*Homotrema rubrum*



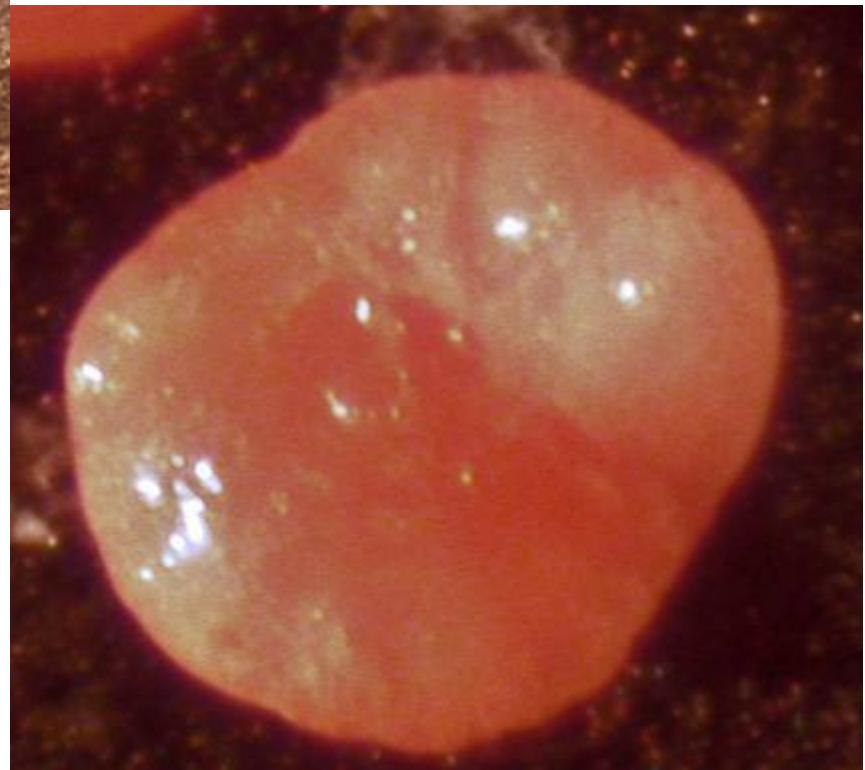


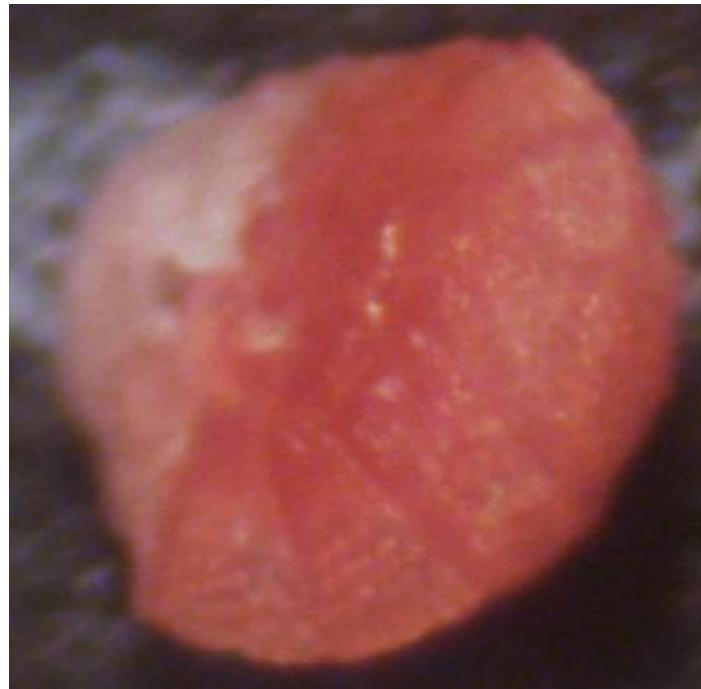
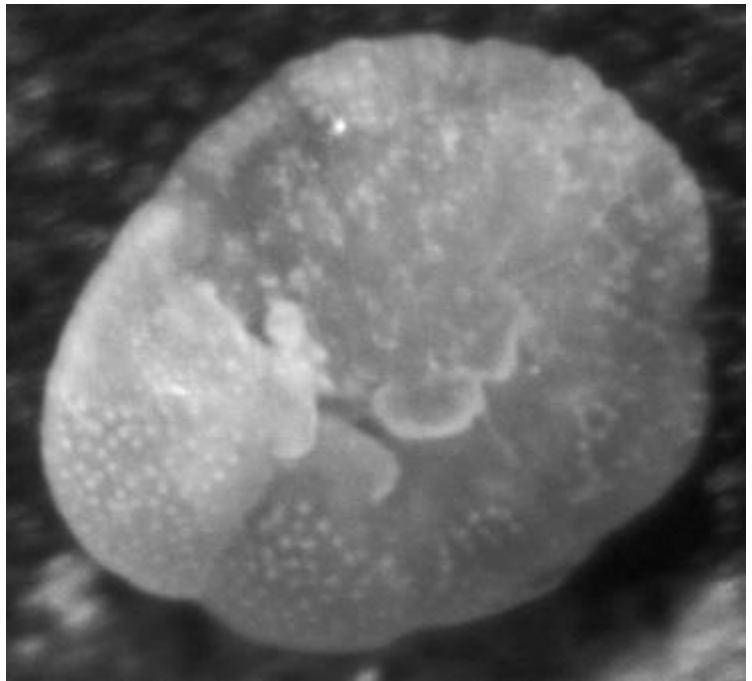
*Discorbis rosea*



*Discorbis rosea*

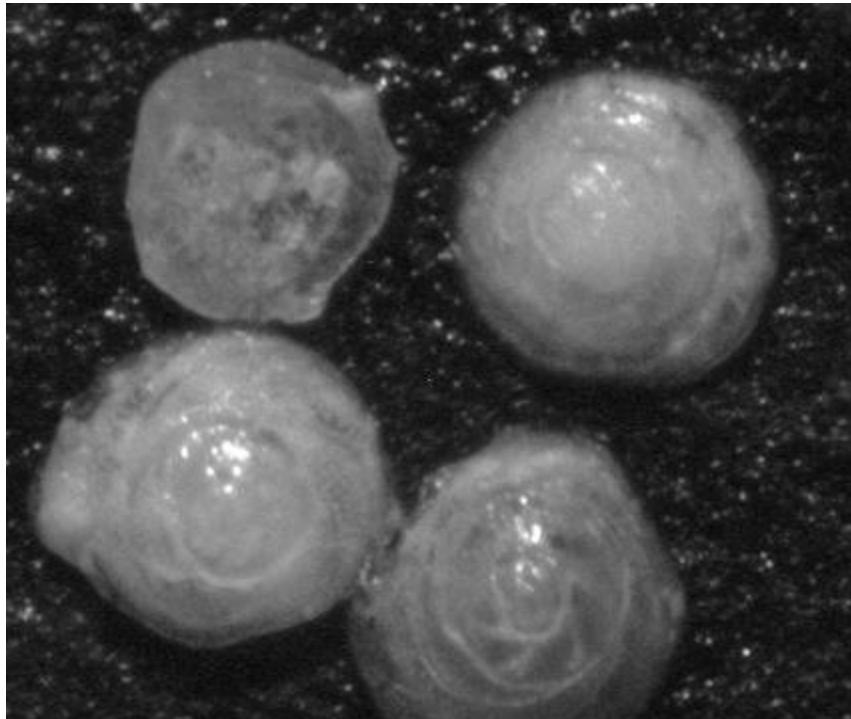
Brady-  
Challenger  
Report



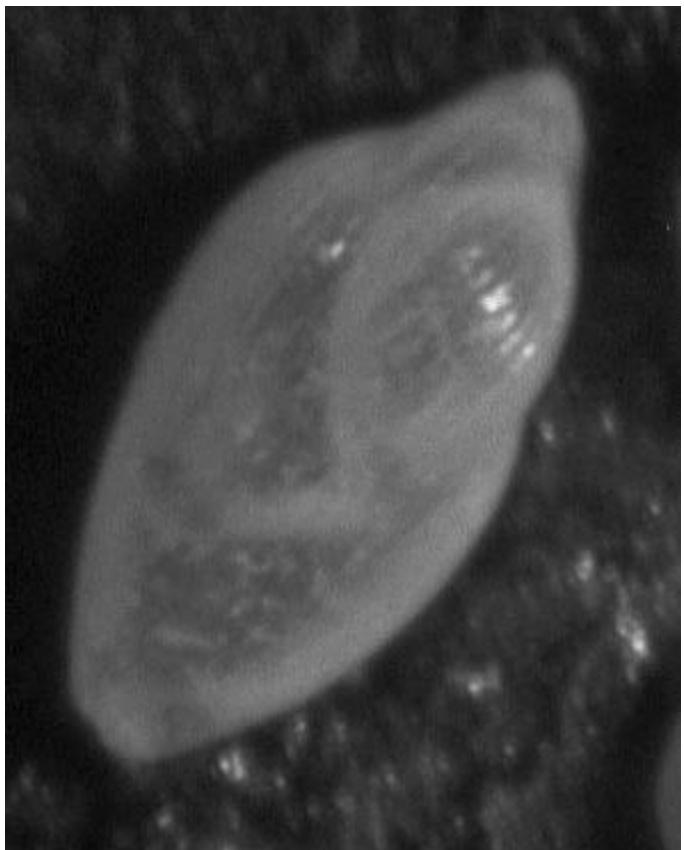
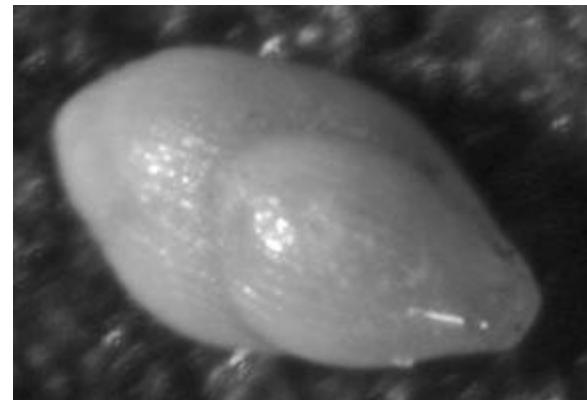
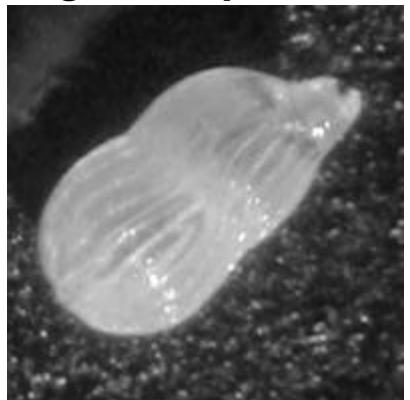


*Discorbis rosea*

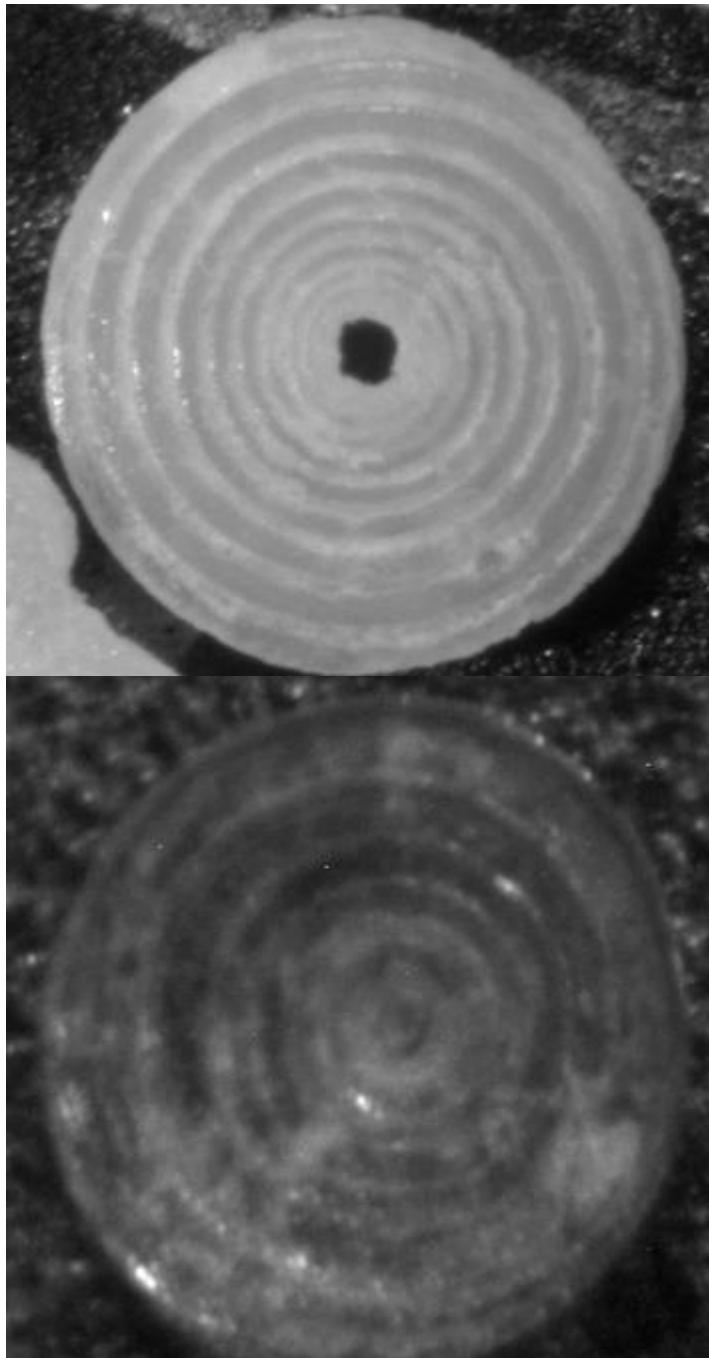
***Neoconorbina orbicularis***



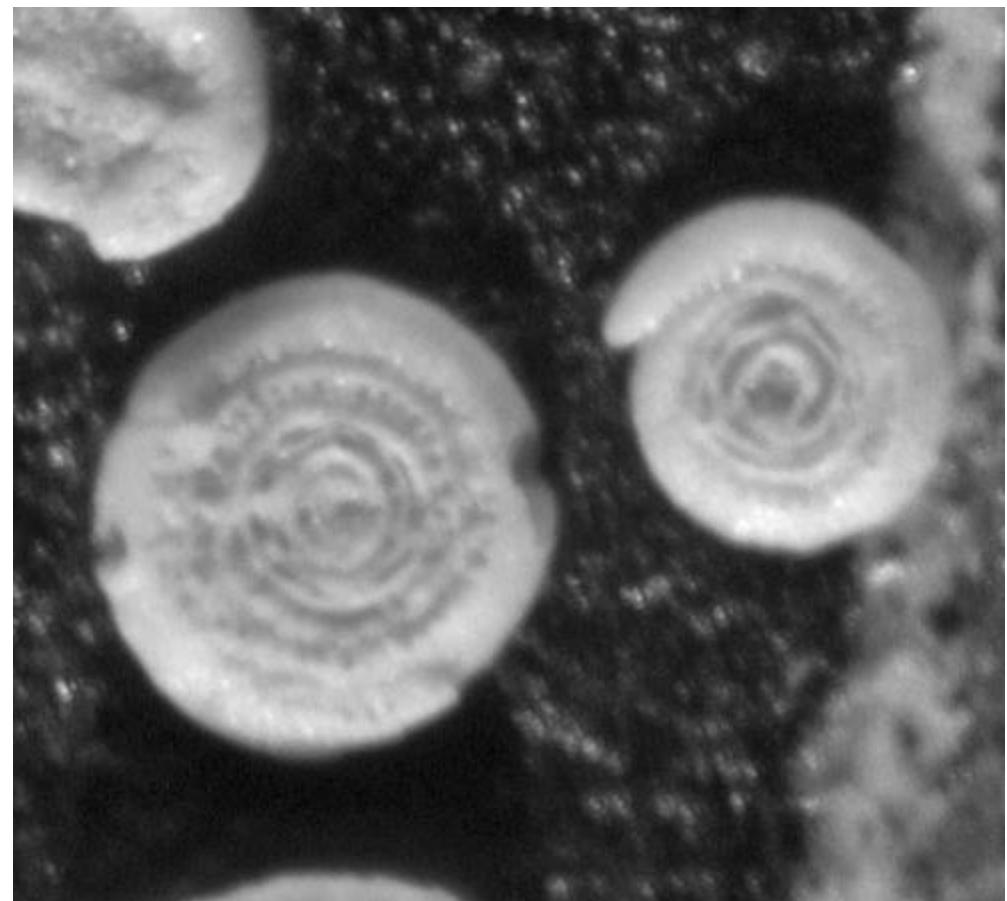
***Marginulinopsis bradyi***



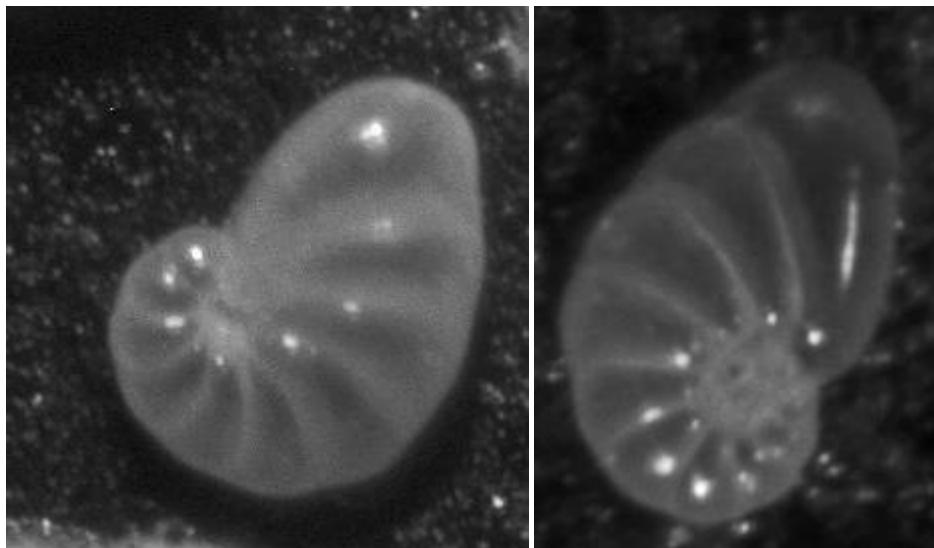
***Guttulina australis***



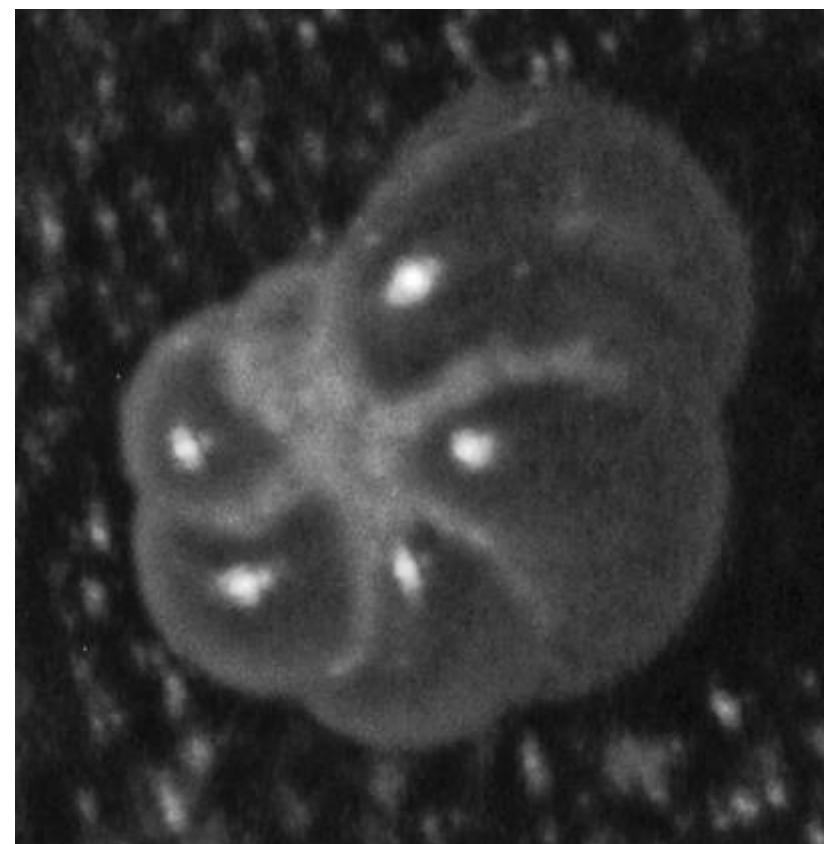
*Spirillina obconica*



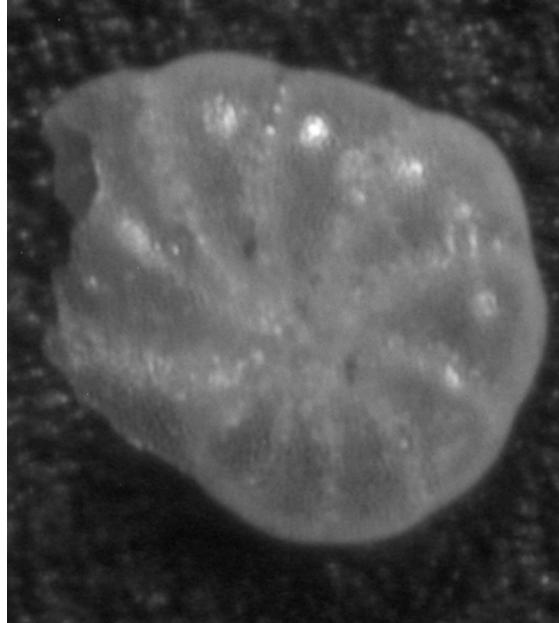
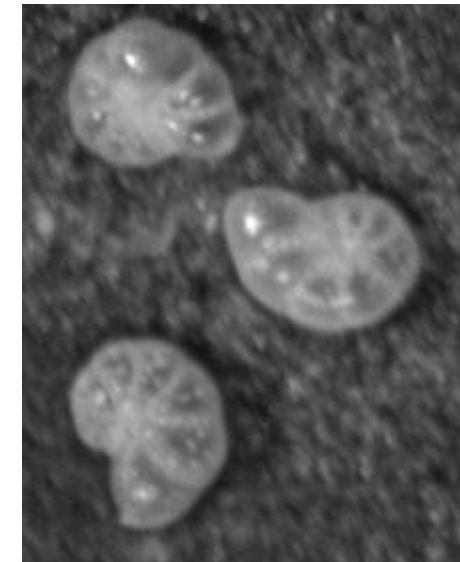
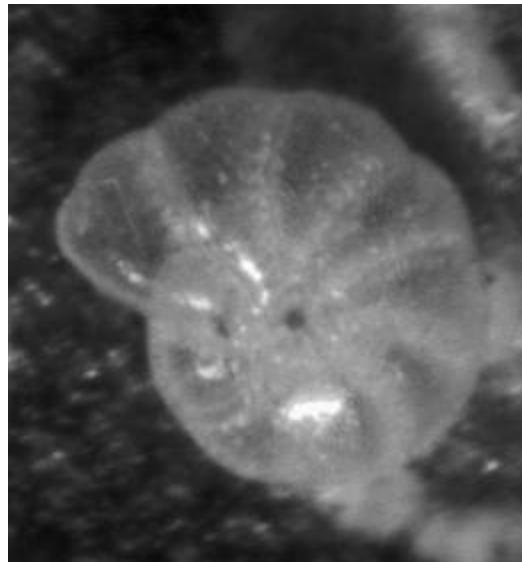
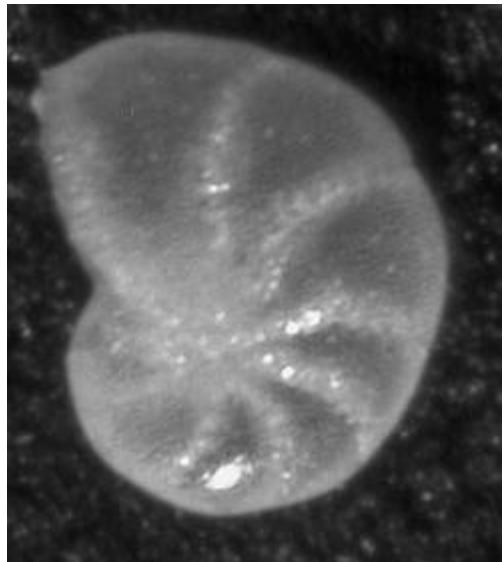
*Spirillina denticulata*



***Nonion grateloupi***

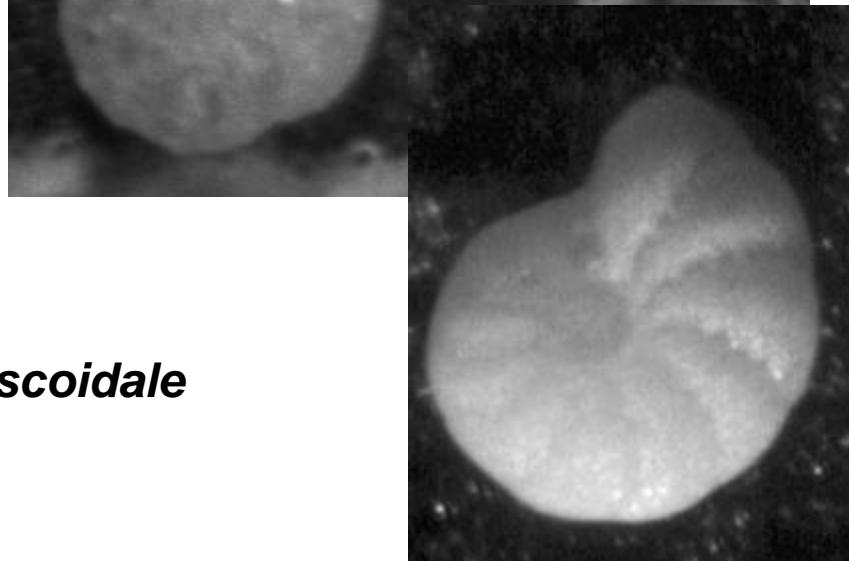
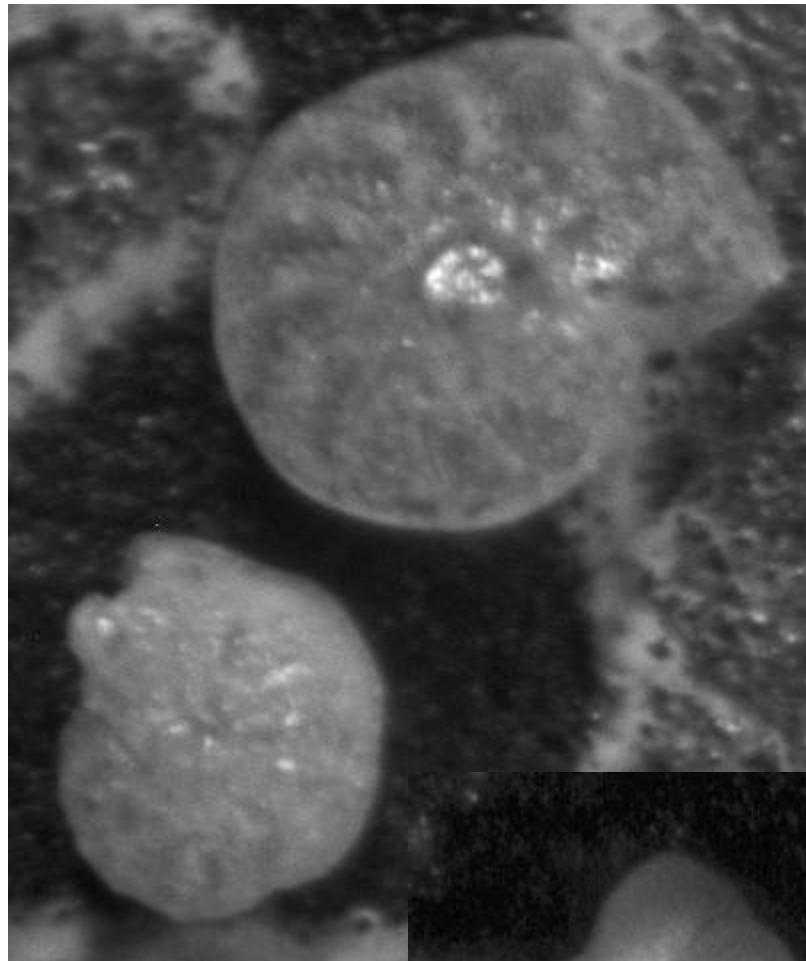
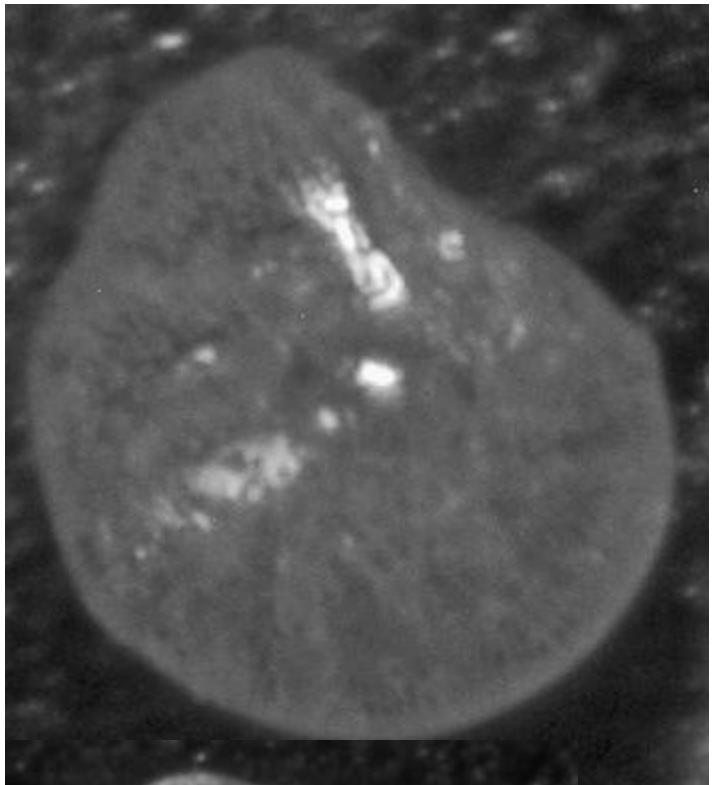


***Nonion depressulum***

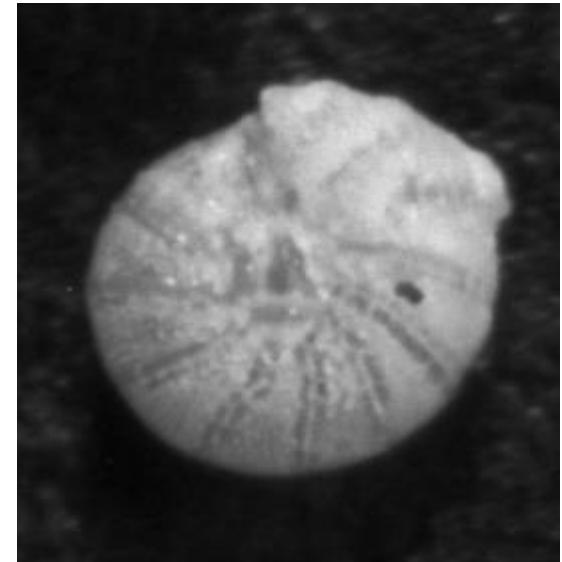
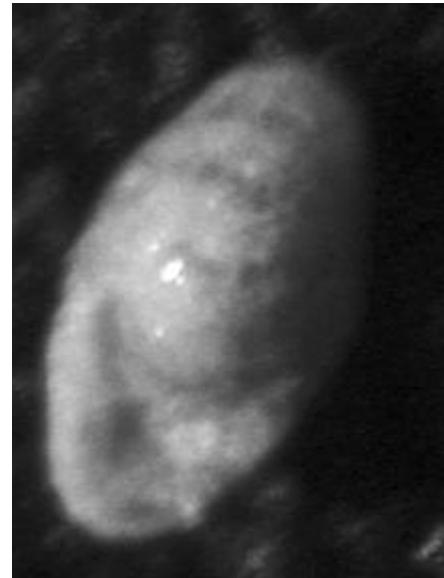
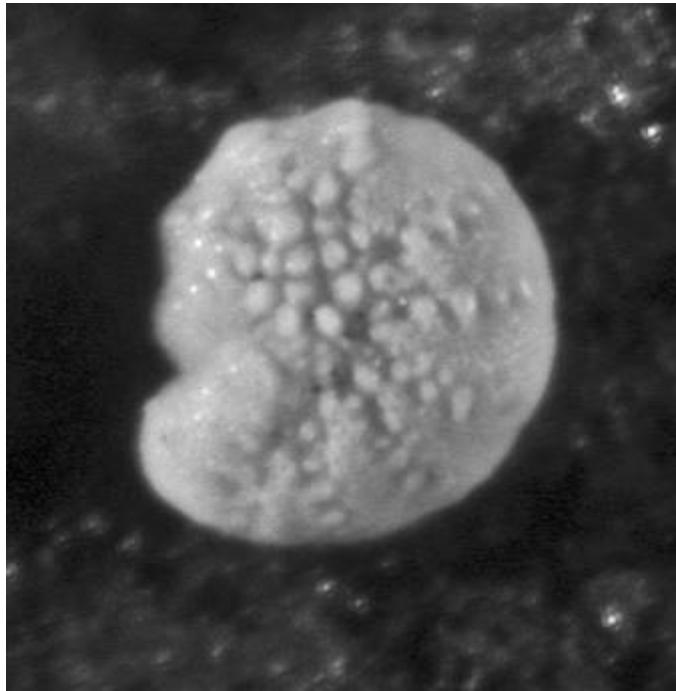


*Elphidium*  
(=*Cribroelphidium*)  
*poeyanum*

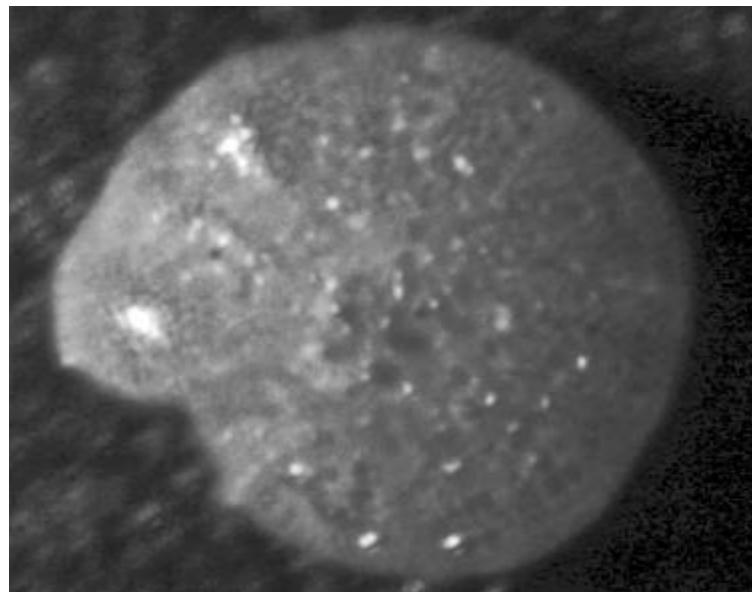
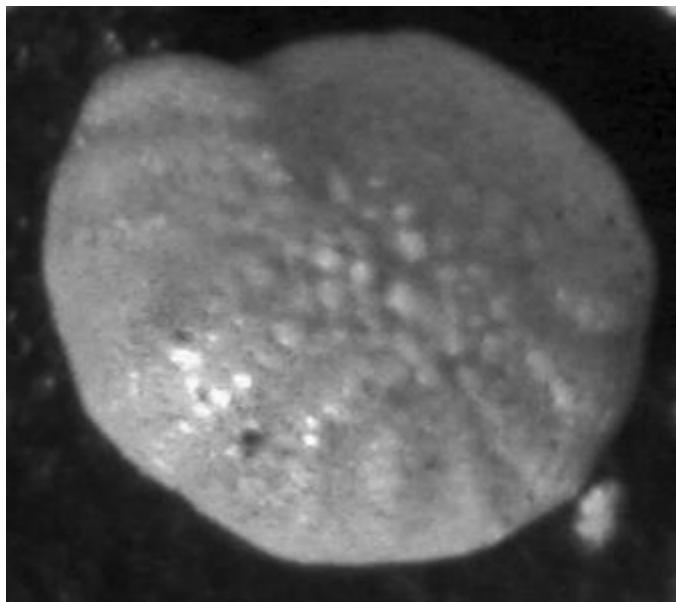


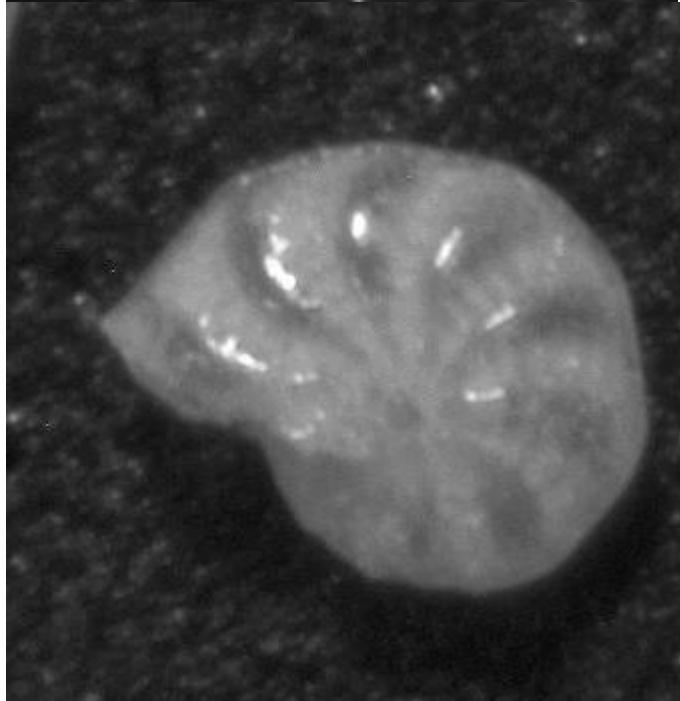


*Elphidium discoidale*

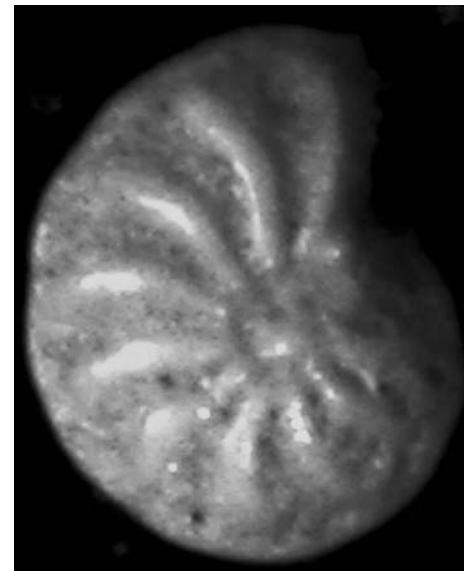


*Elphidium gunteri*

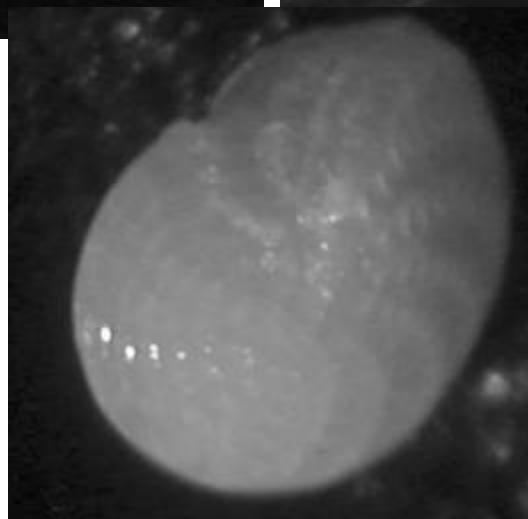
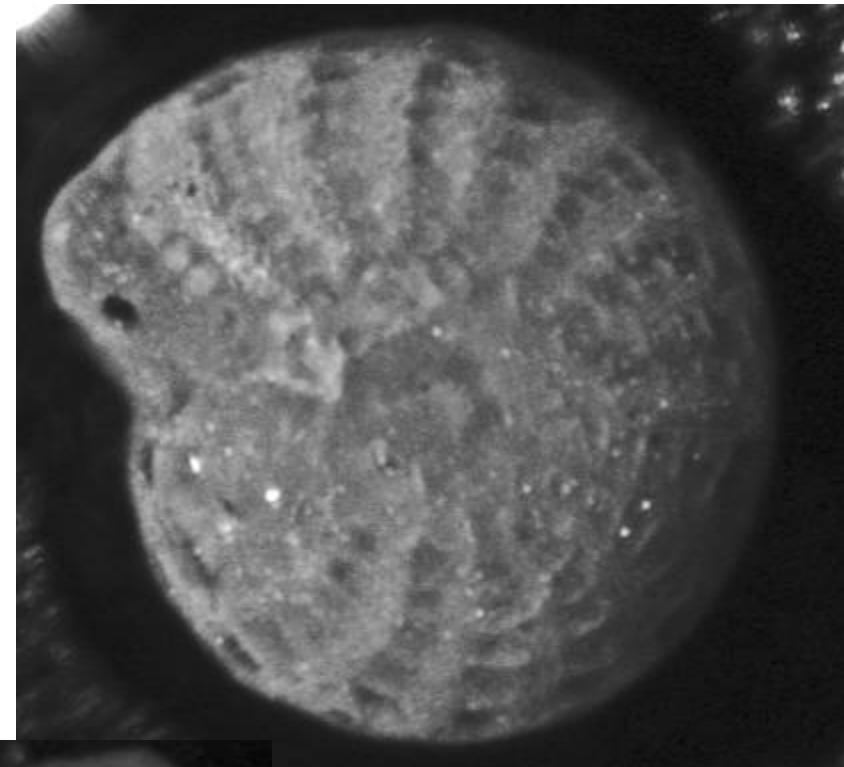
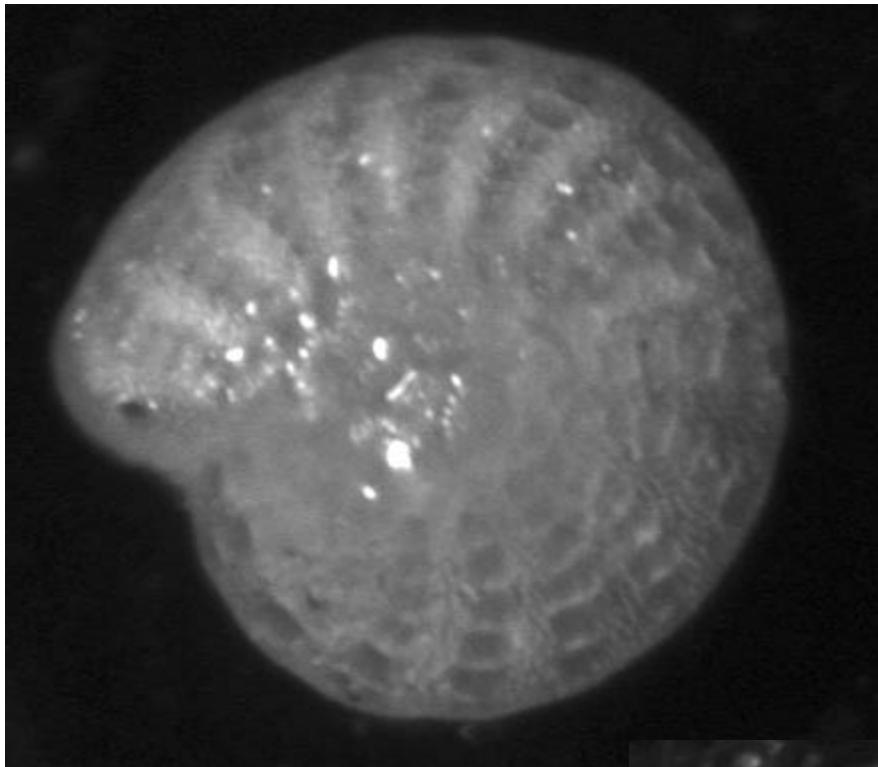


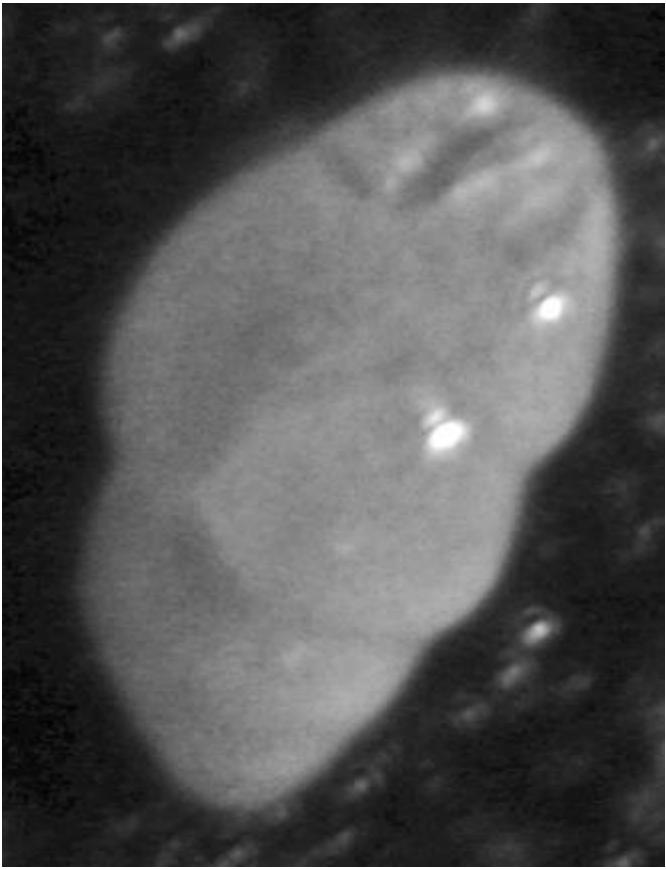


*Elphidium fimbriatum*

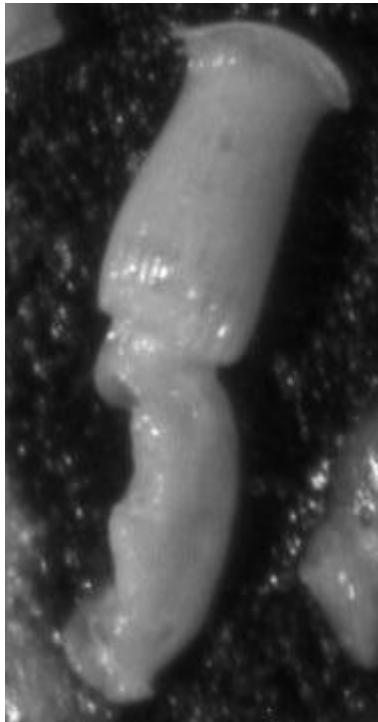


*Elphidium sagram*

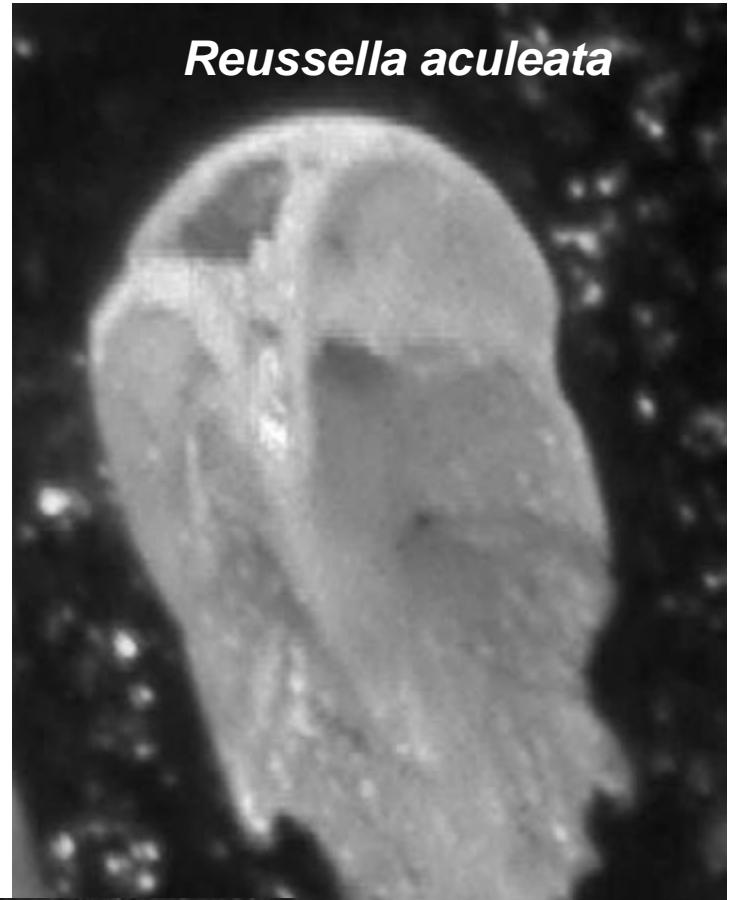




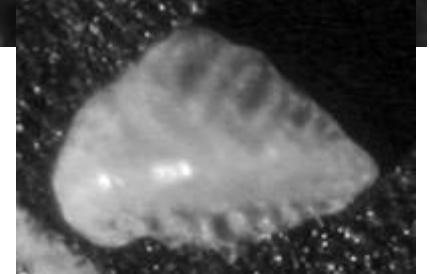
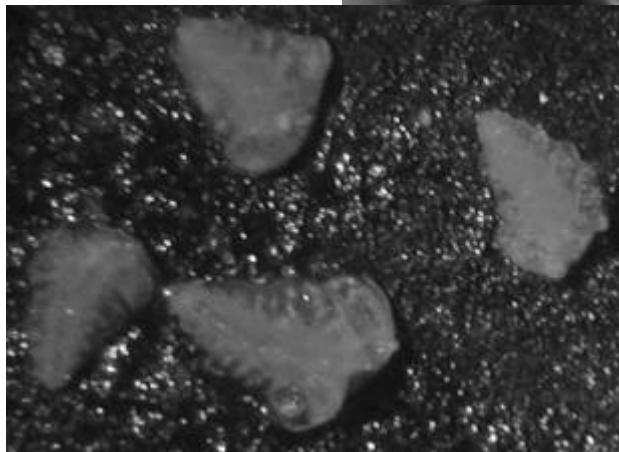
***Bulimina* sp.**



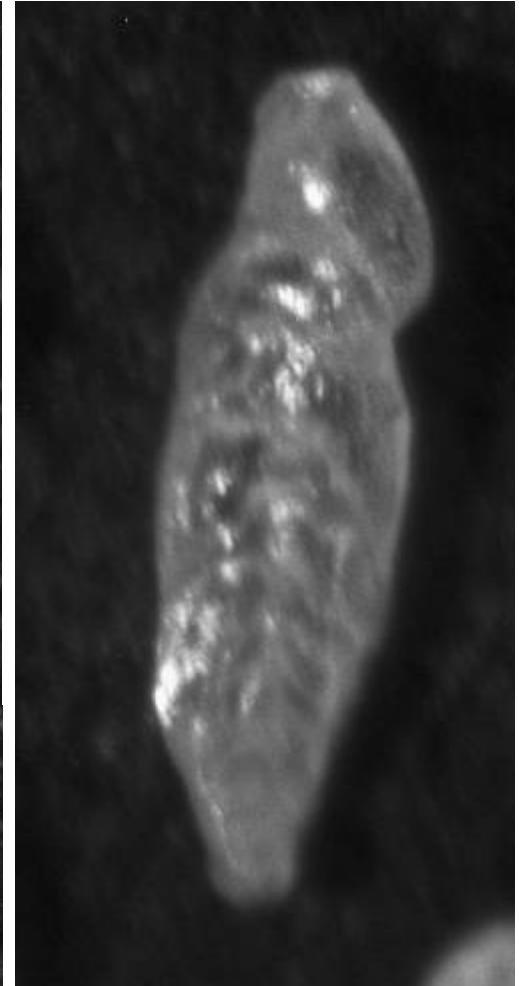
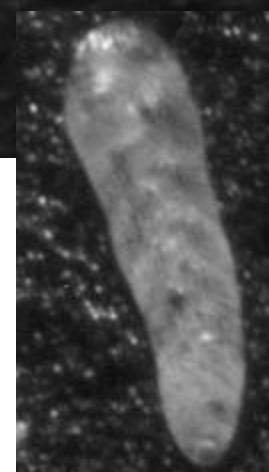
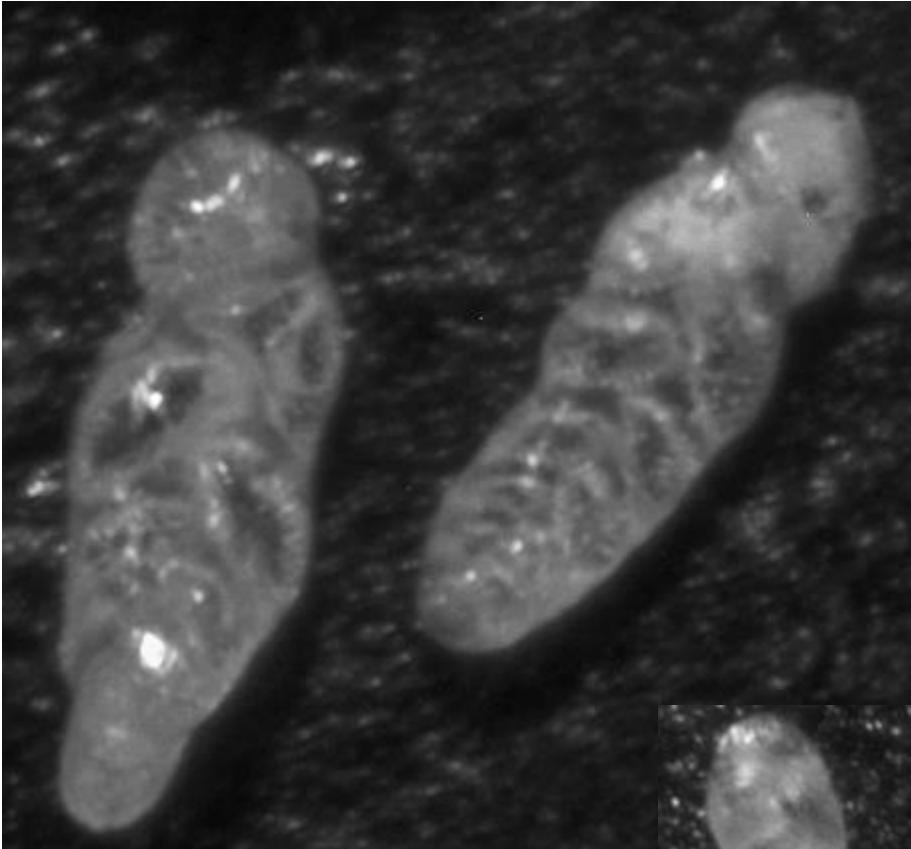
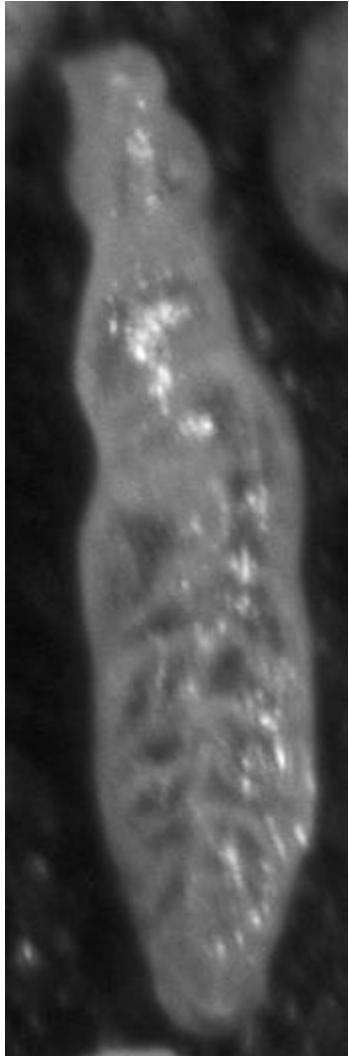
***Articulina*  
*lineata***

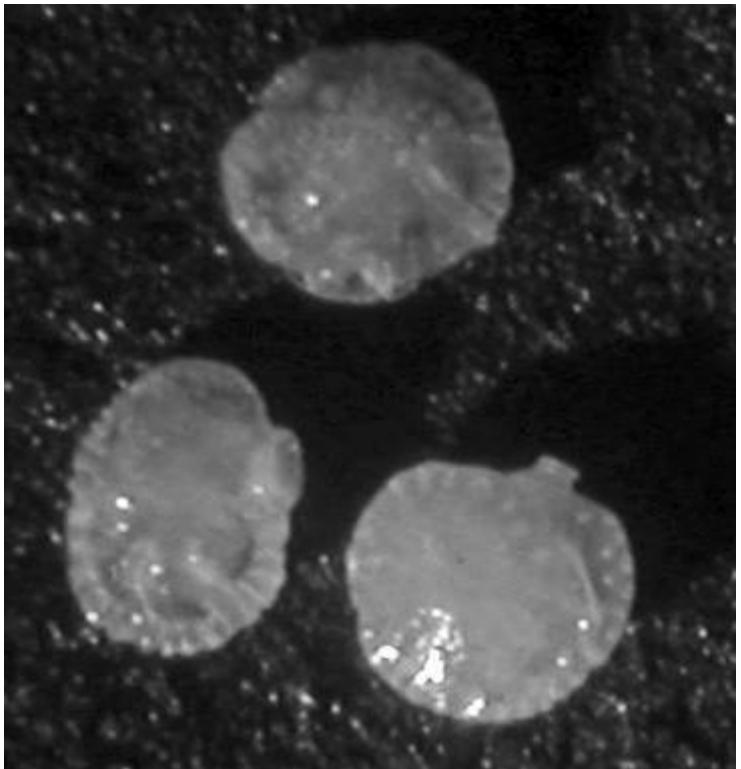


***Reussella aculeata***

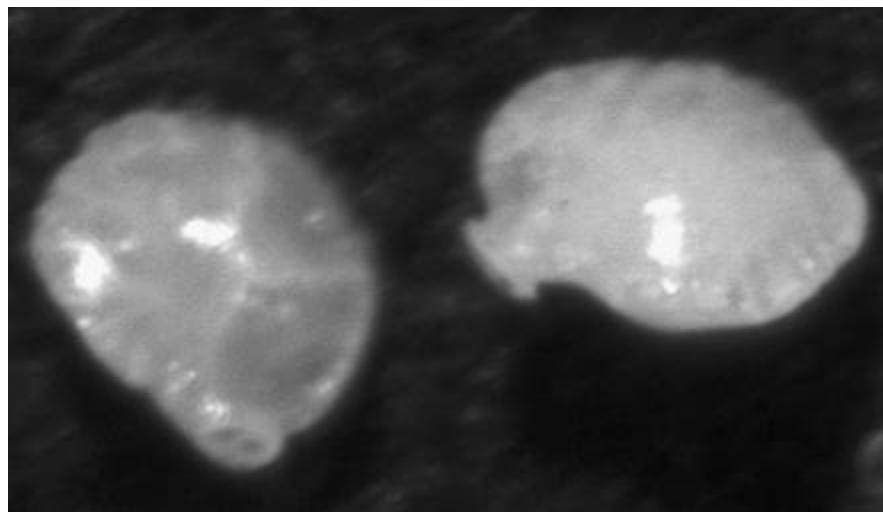


*Brizalina*  
*lanceolata*

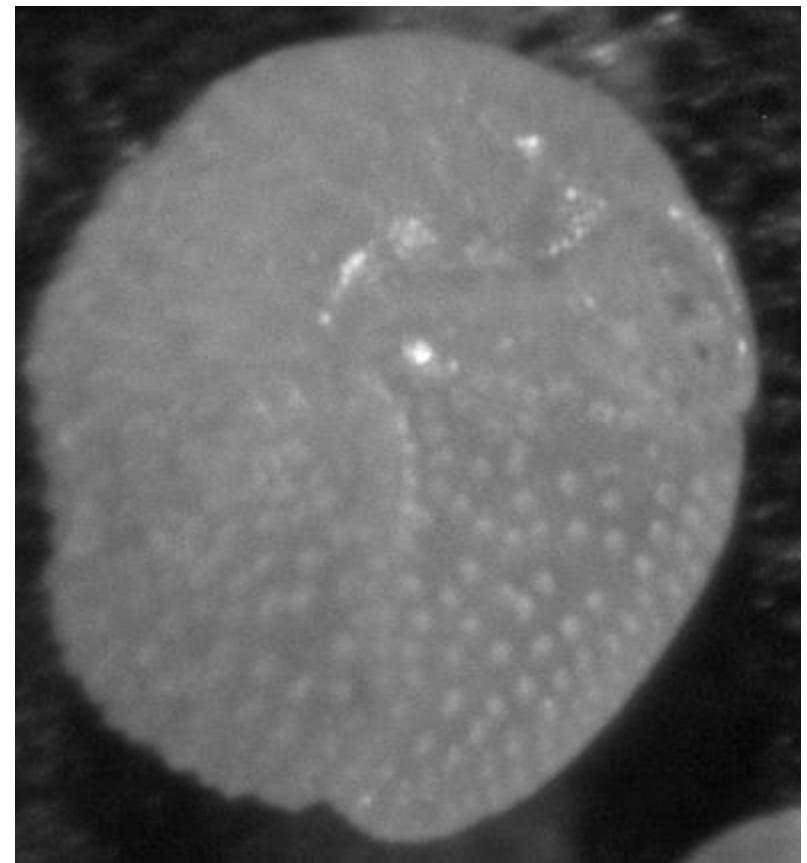


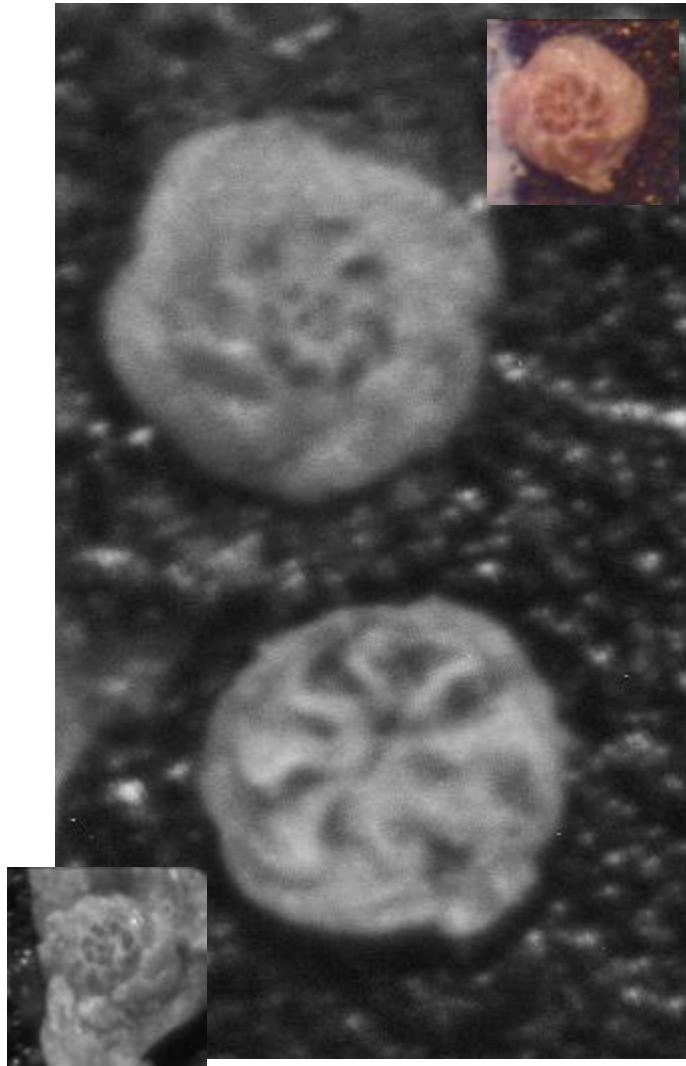


*Siphonina reticulata*

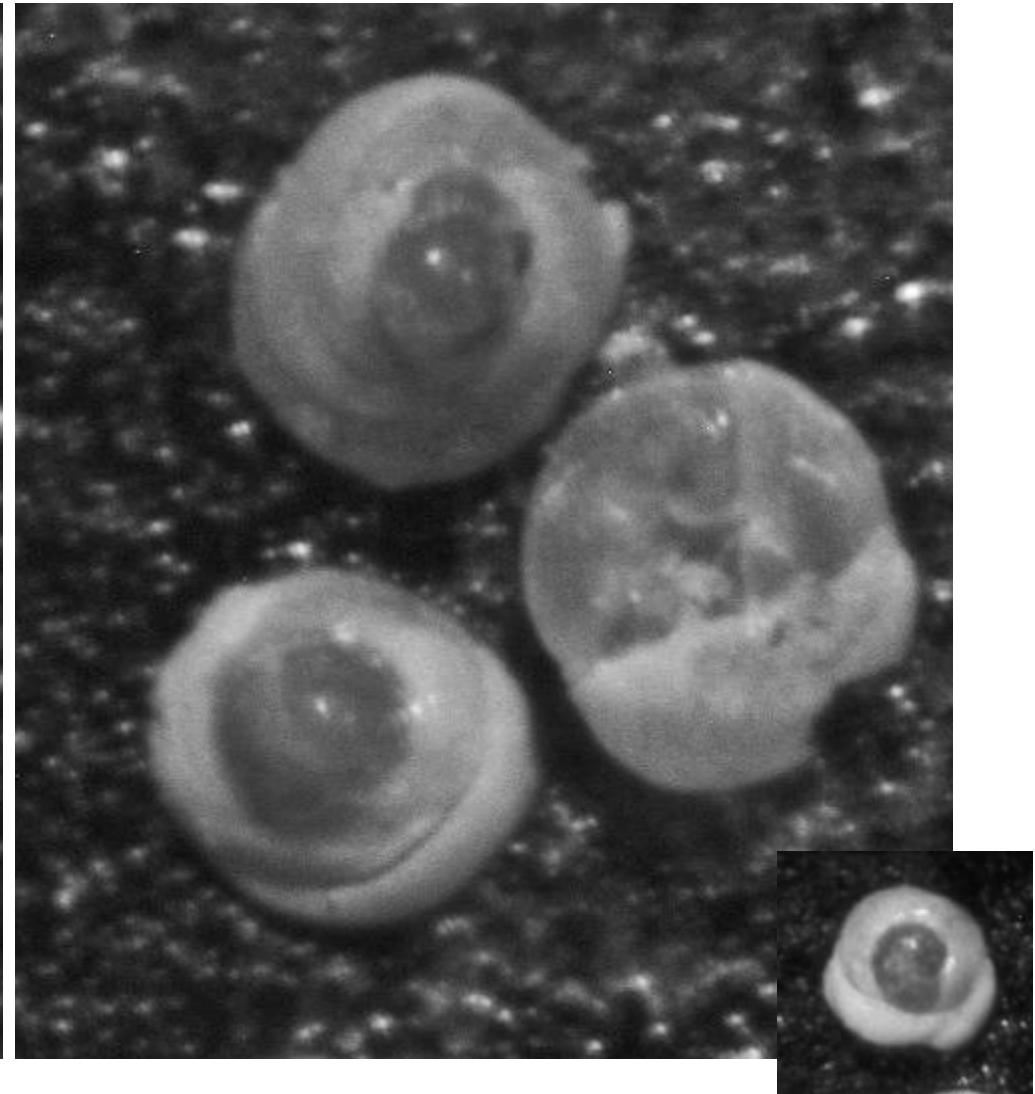


*Siphonina pulchra*

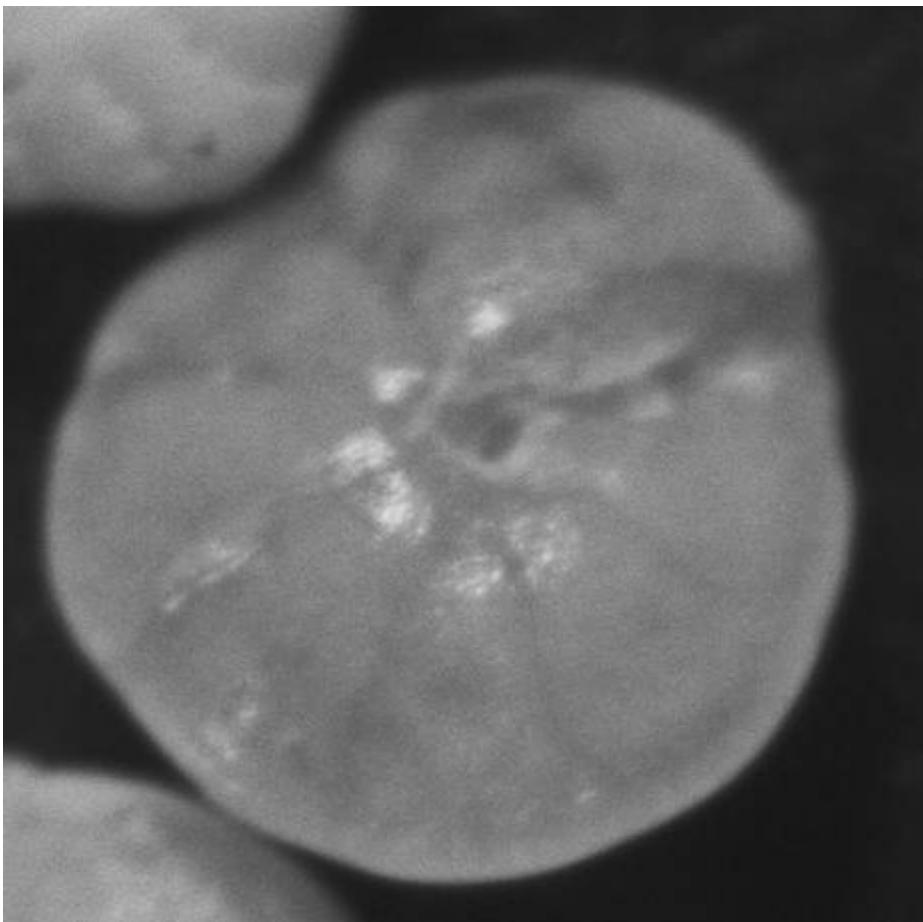




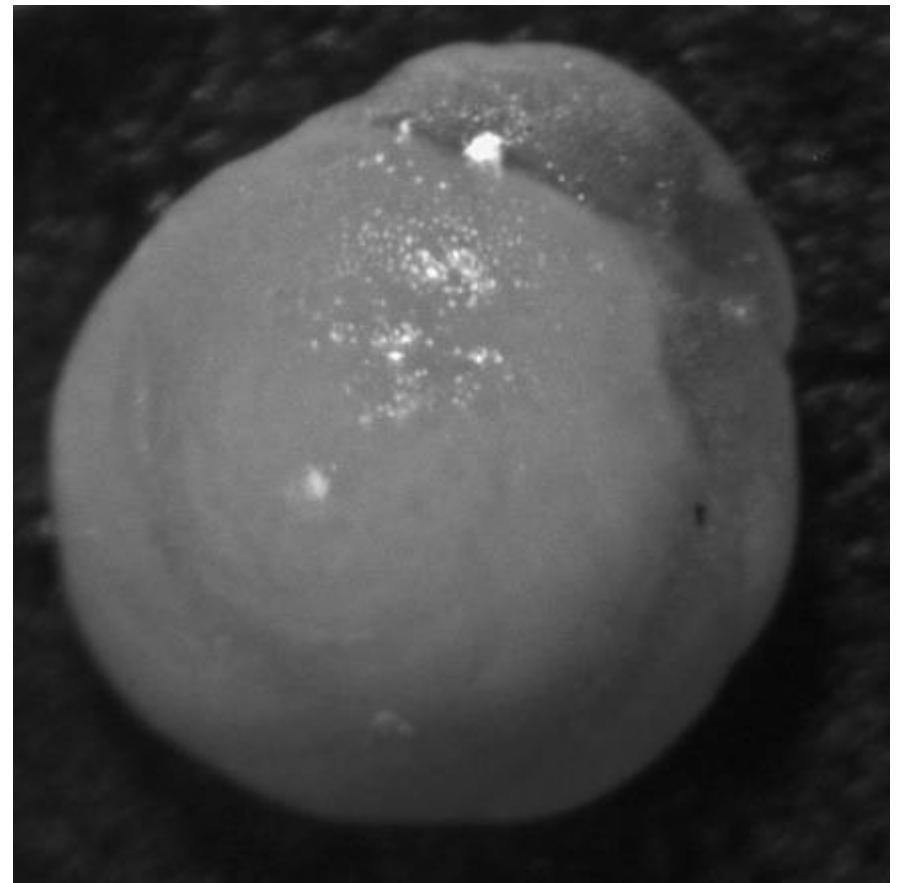
*Lobatula sp. indet.*

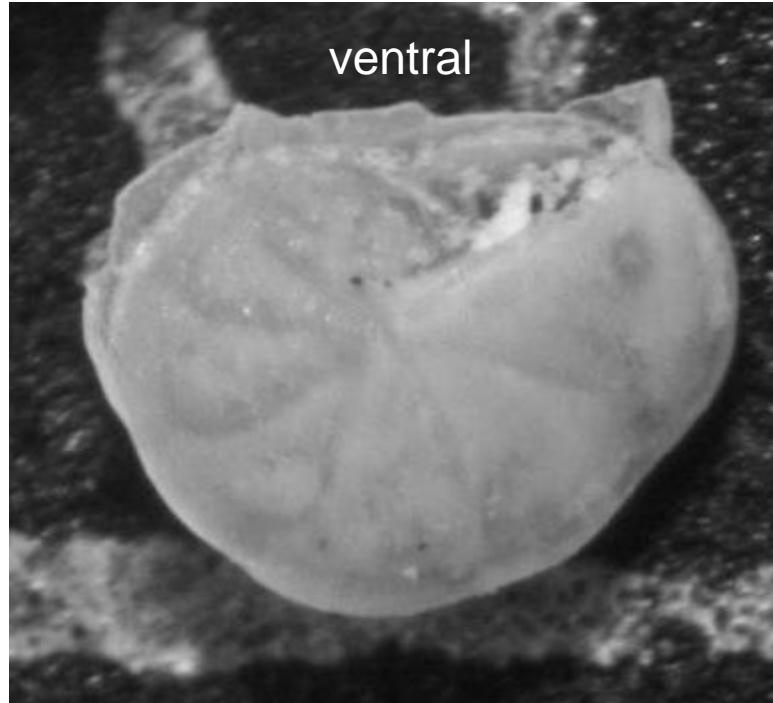


*Rosalina concinna*

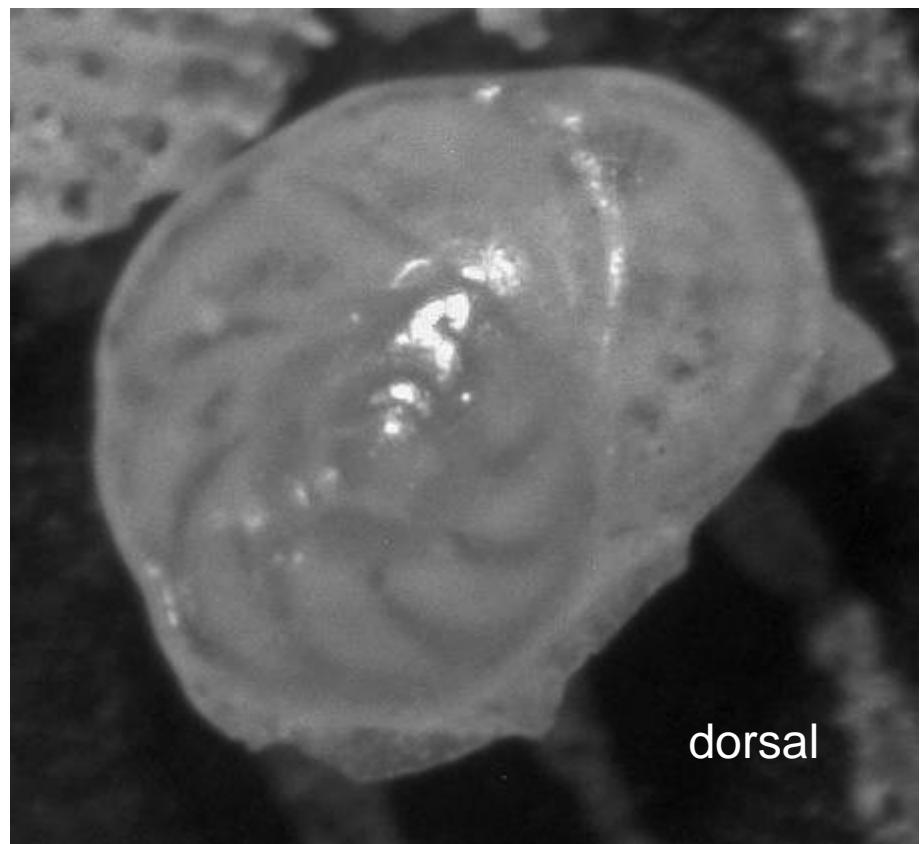
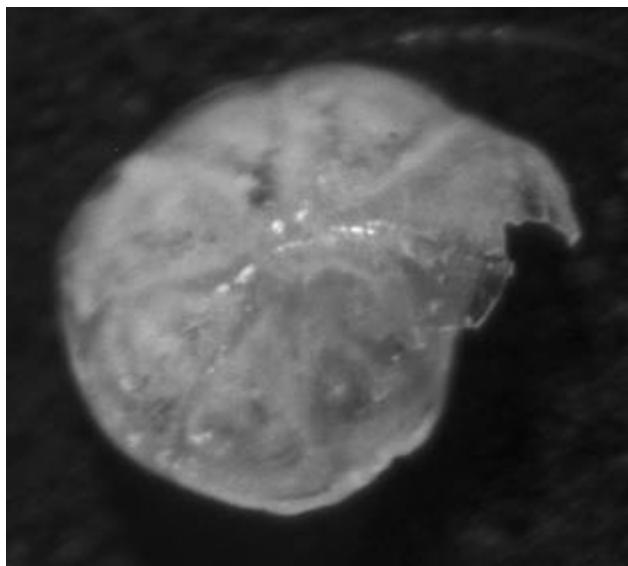
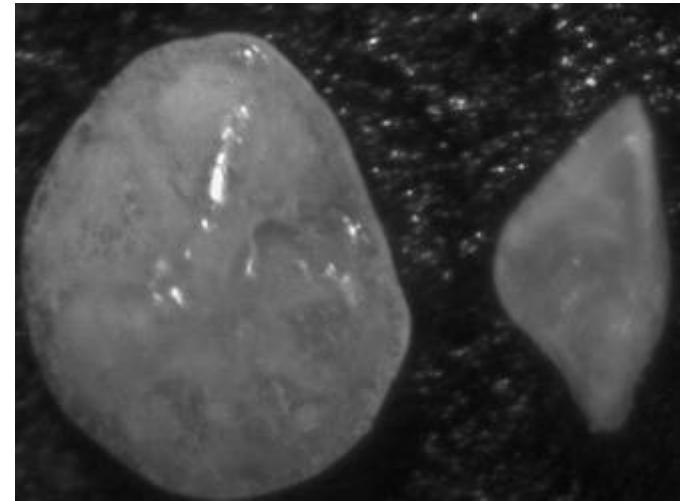


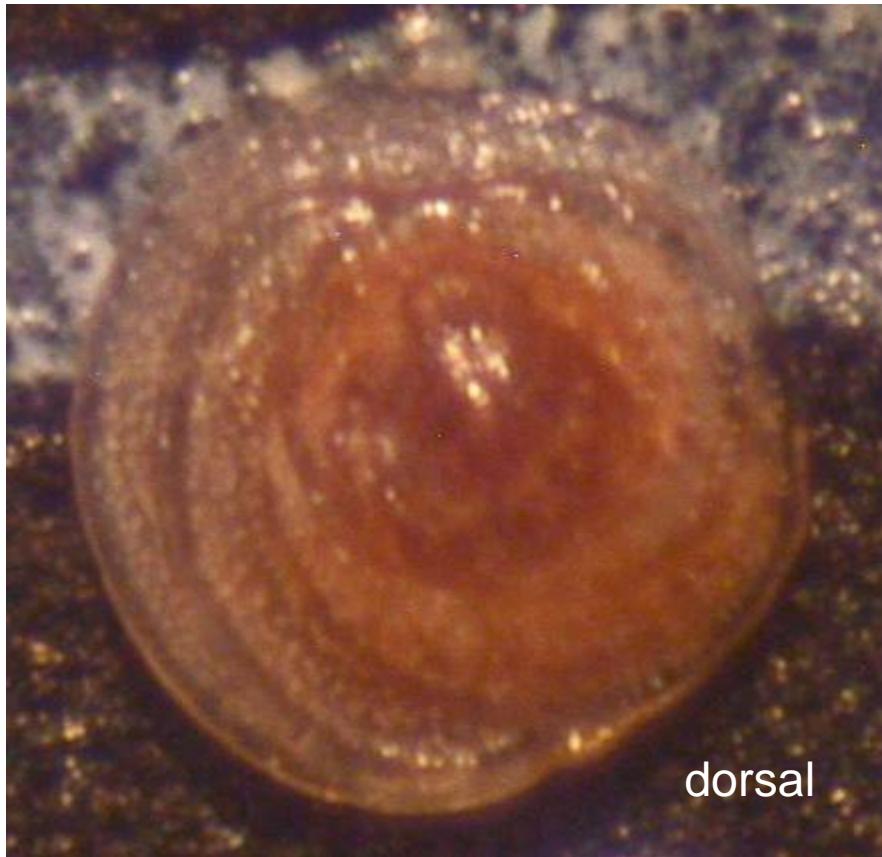
*Eponides antillarum*





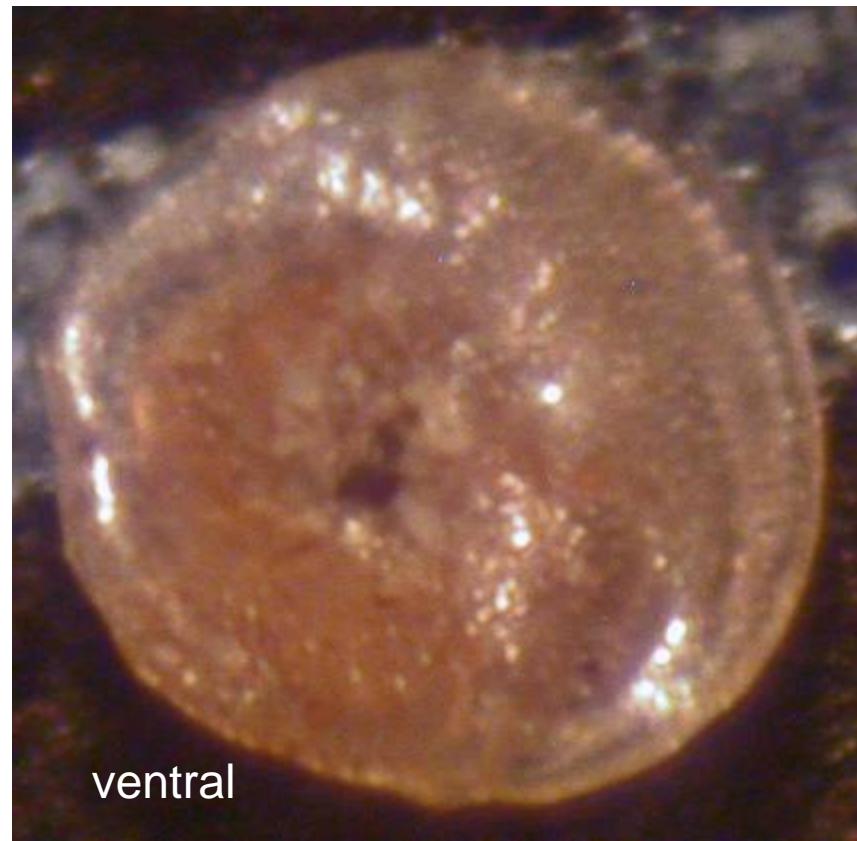
*Hoeglundina  
elegans*



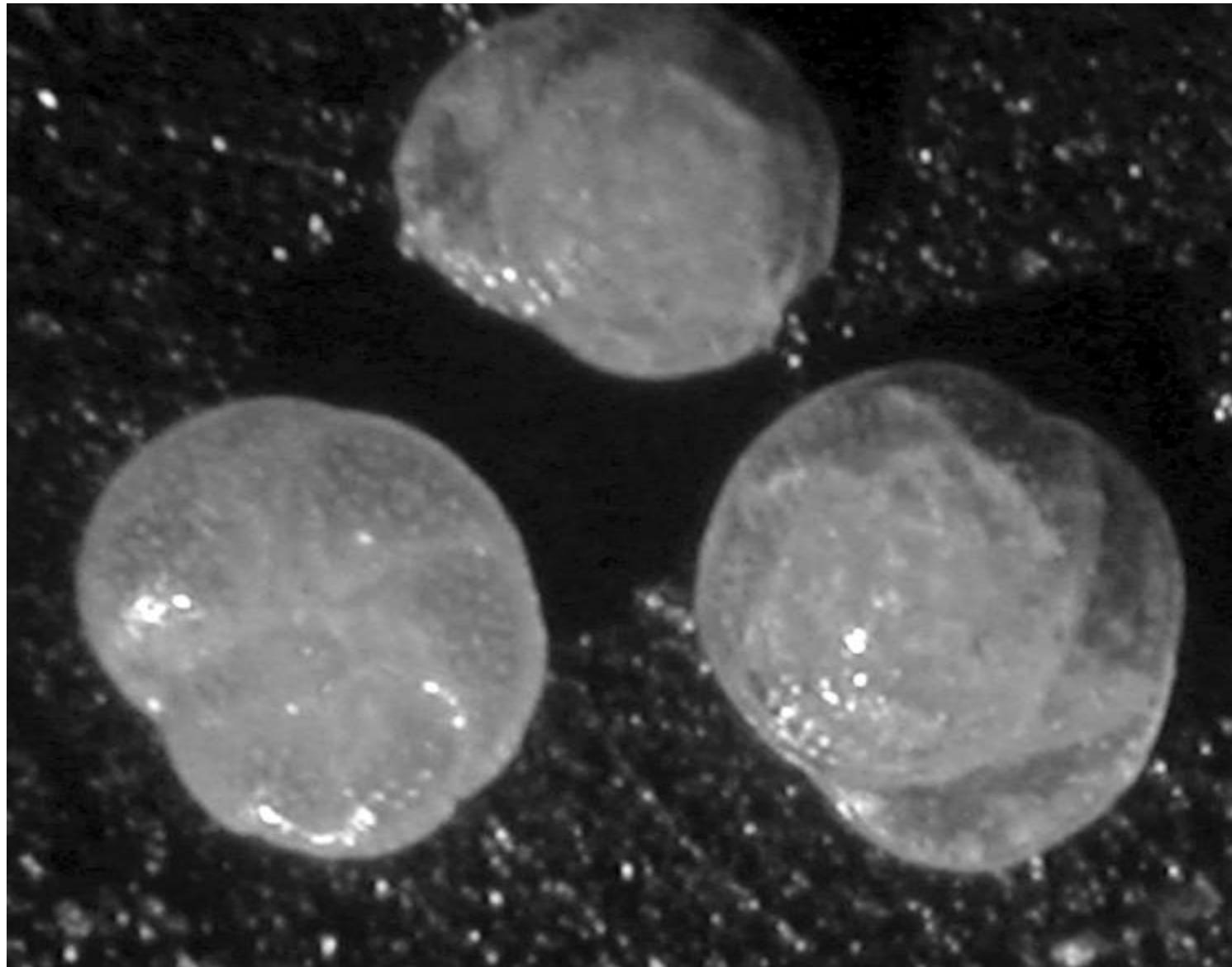


dorsal

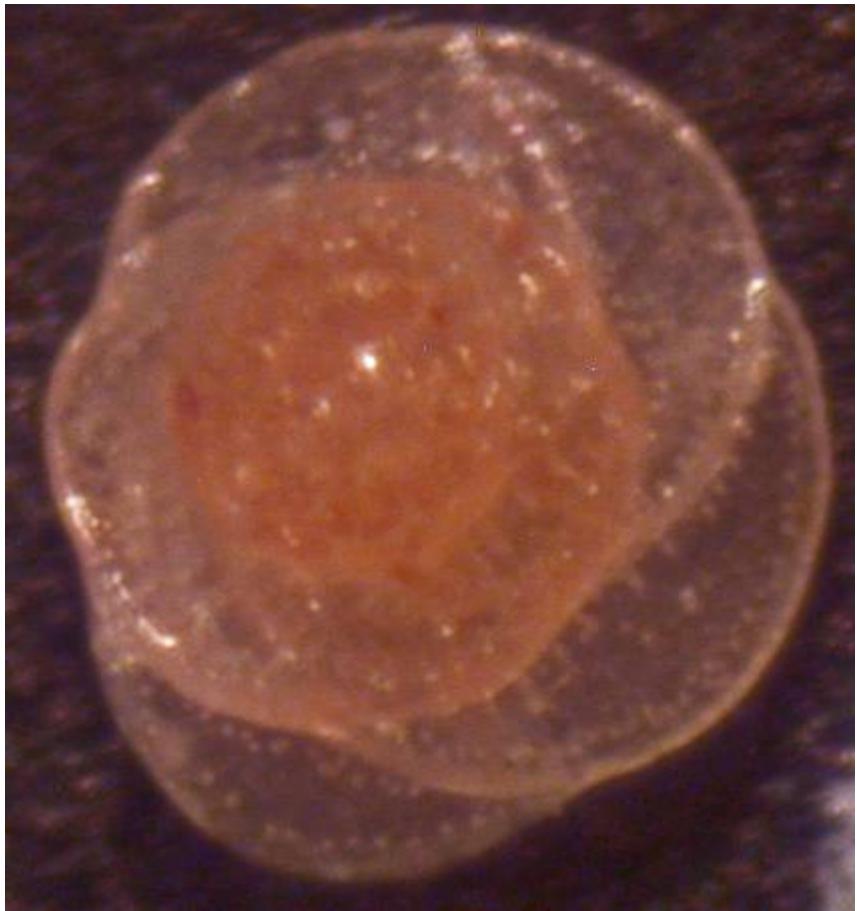
***Neoconorbina  
orbicularis***



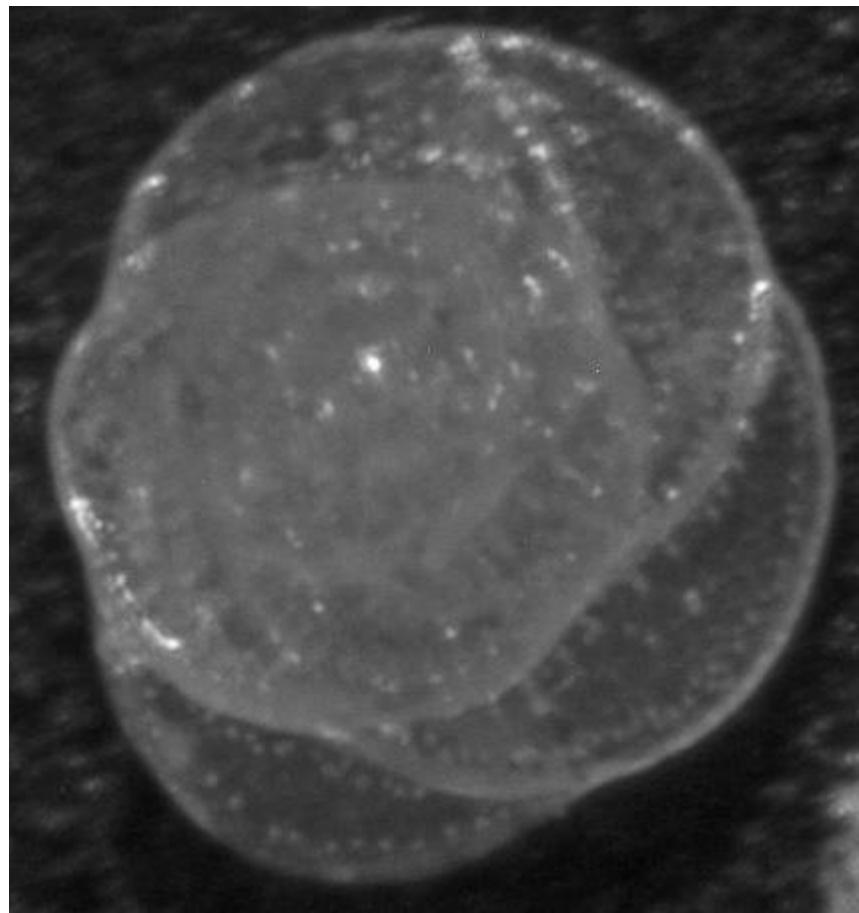
ventral



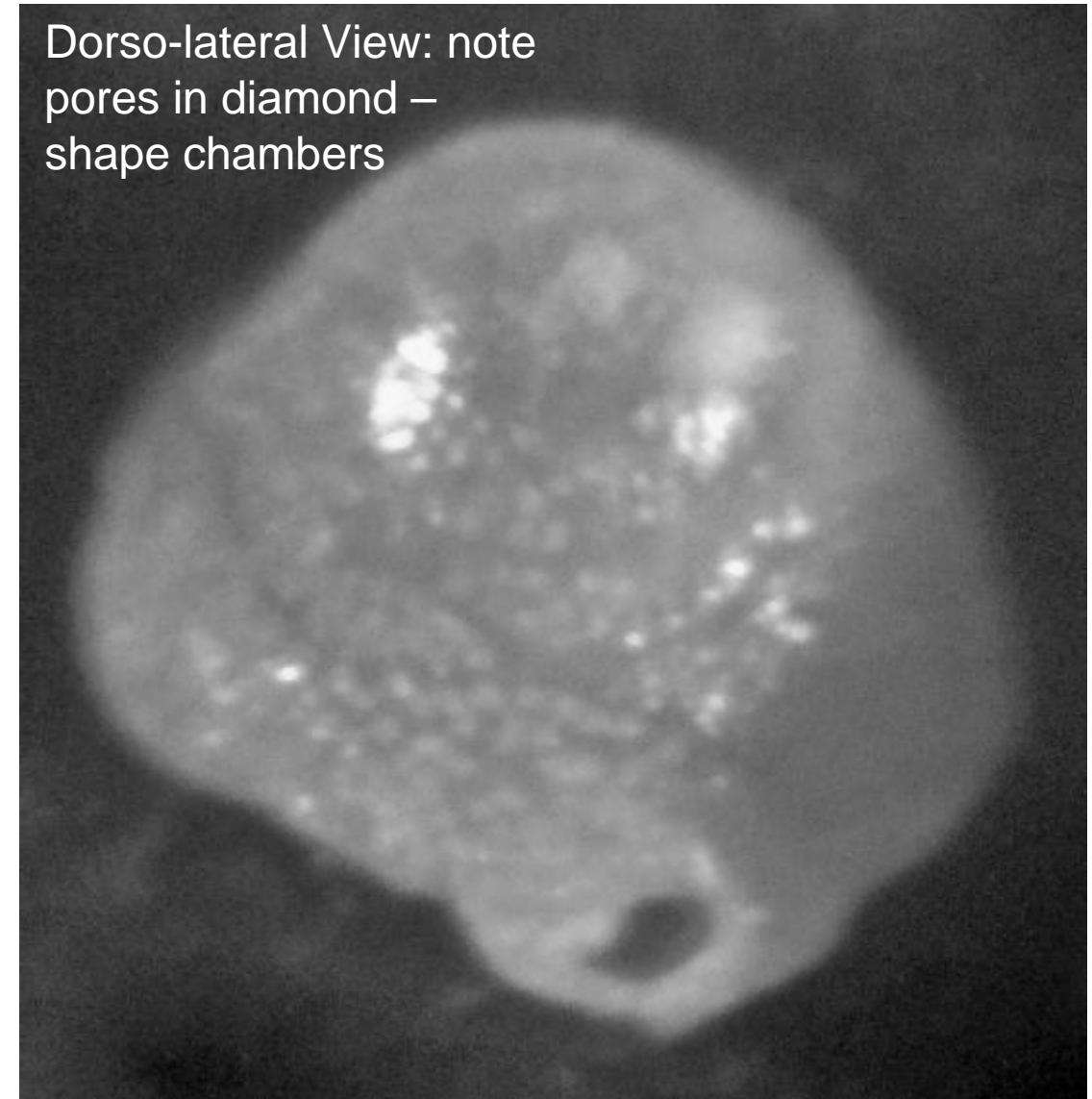
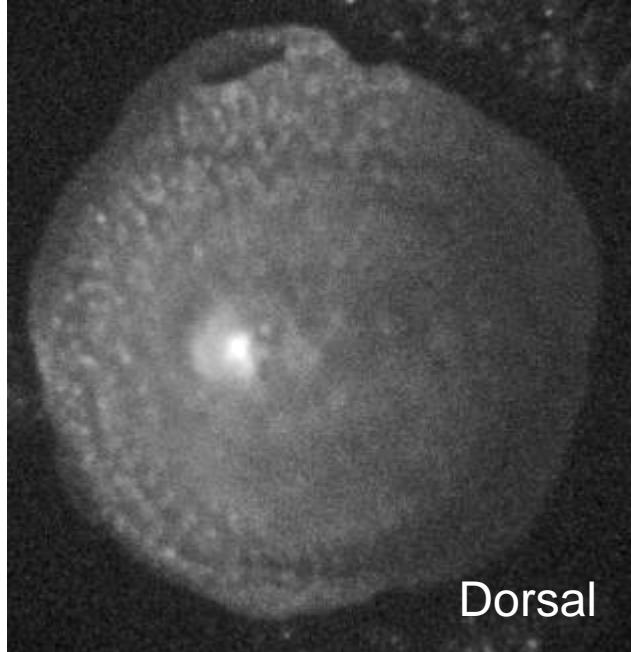
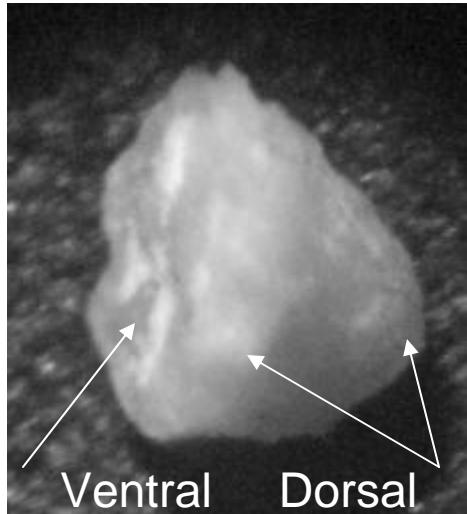
*Eponides repandus*

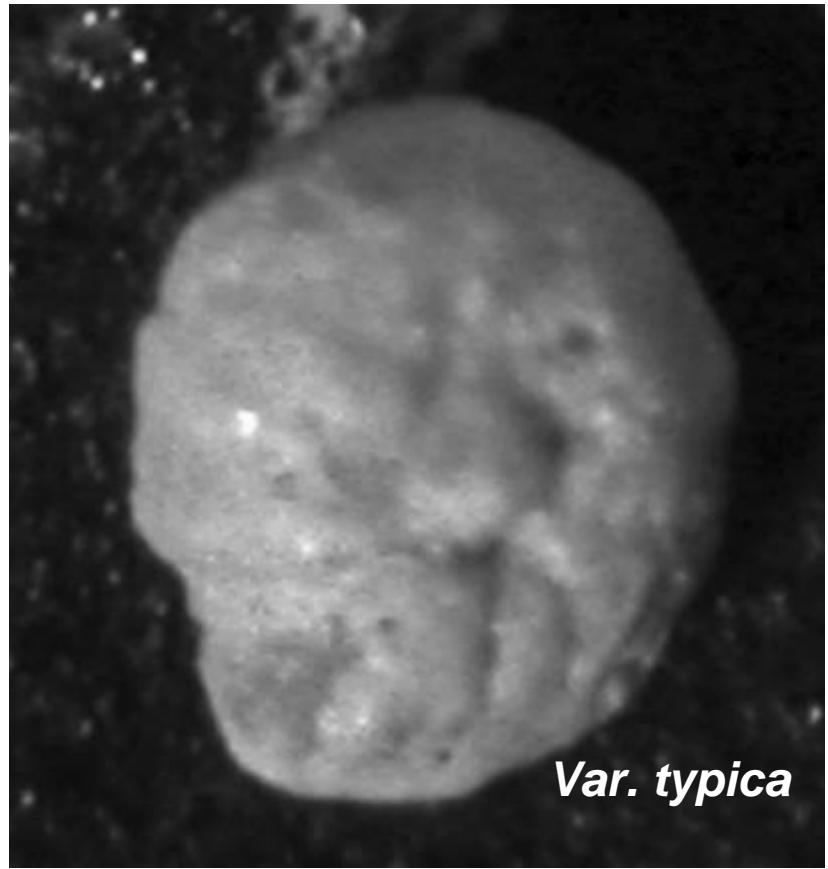


*Eponides repandus*

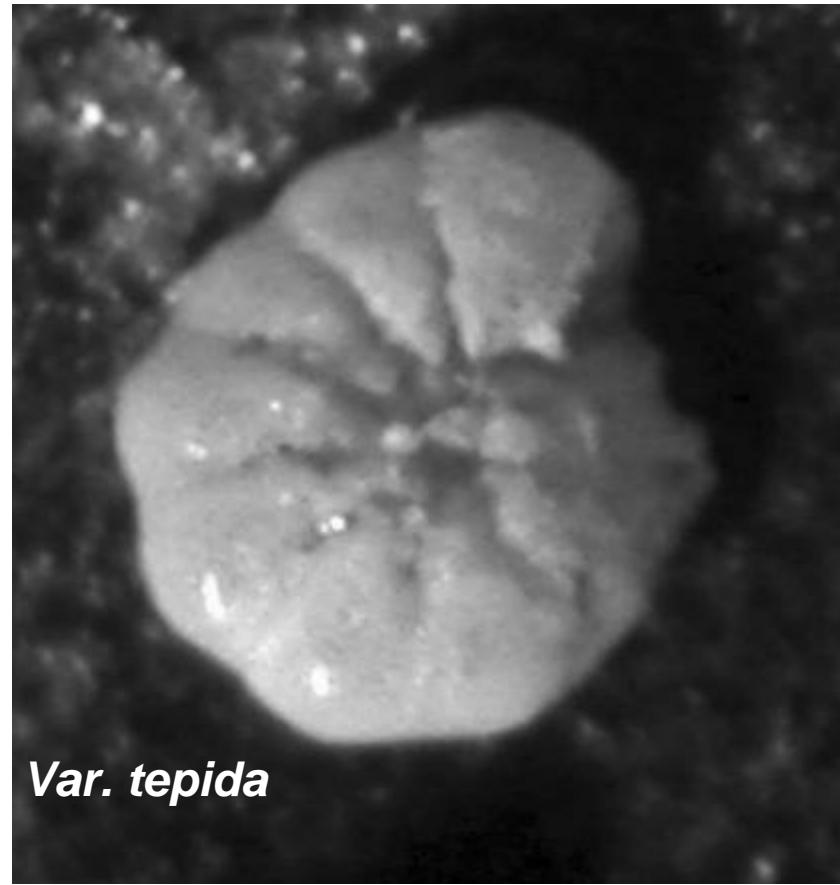


## *Cymbalopora squammosa*



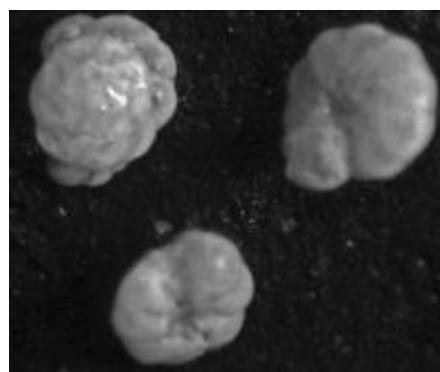


*Var. typica*



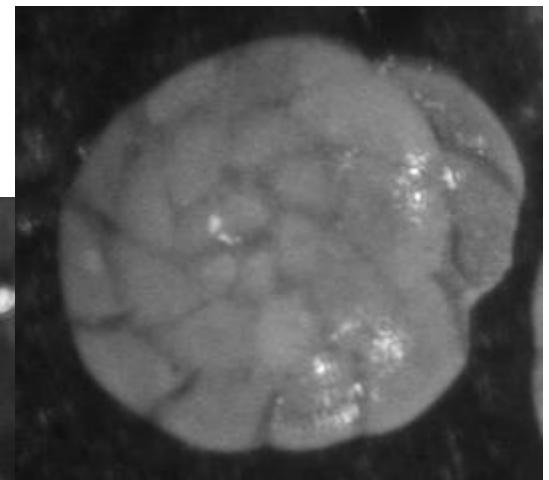
*Var. tepida*

*Ammonia parkinsoniana*

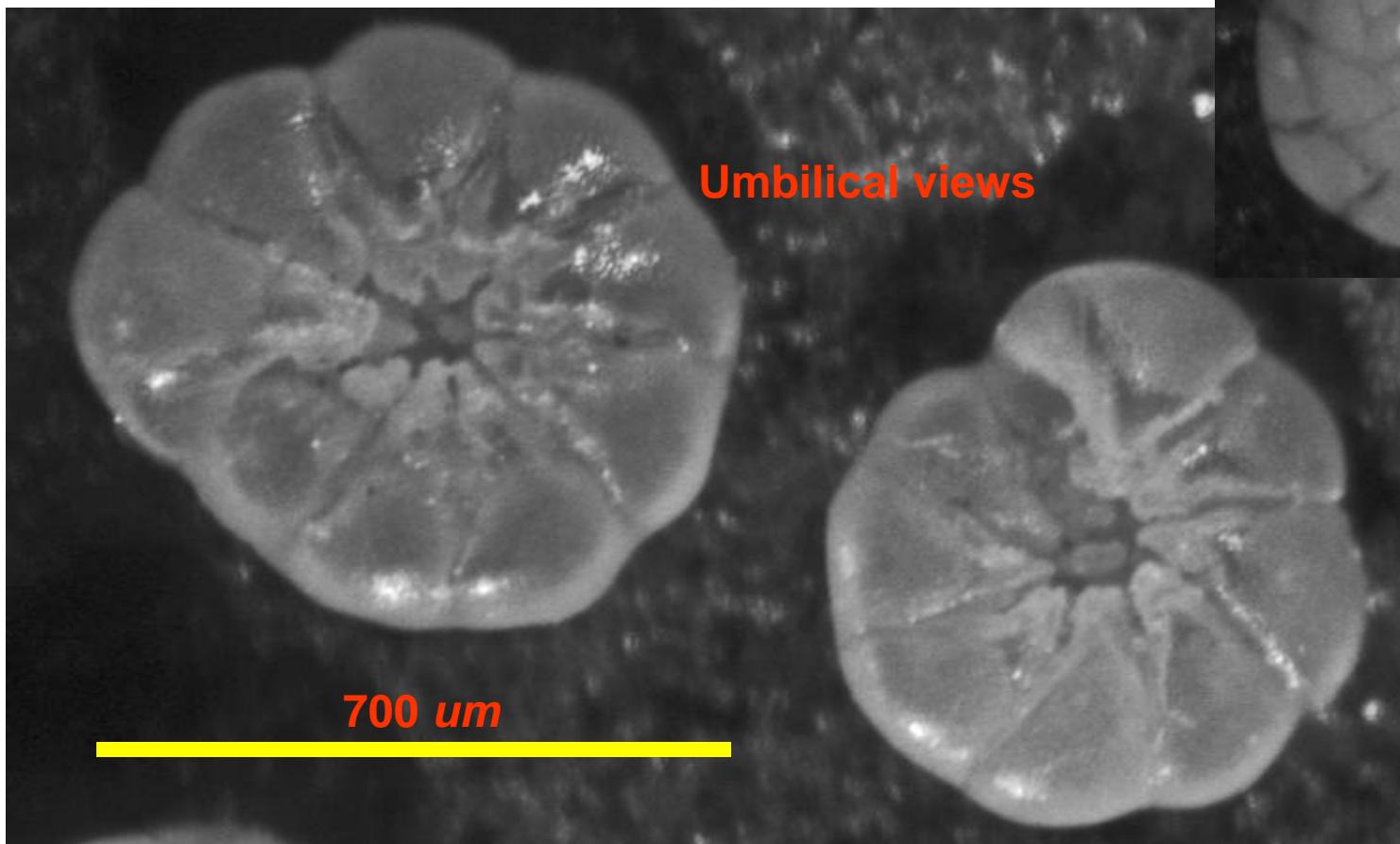


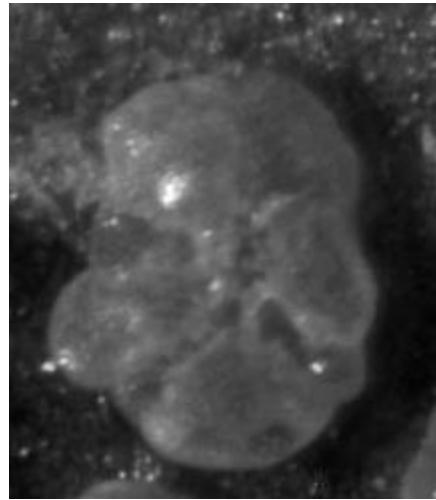
# *Ammonia parkinsoniana* var. *tepida*

Spiral view

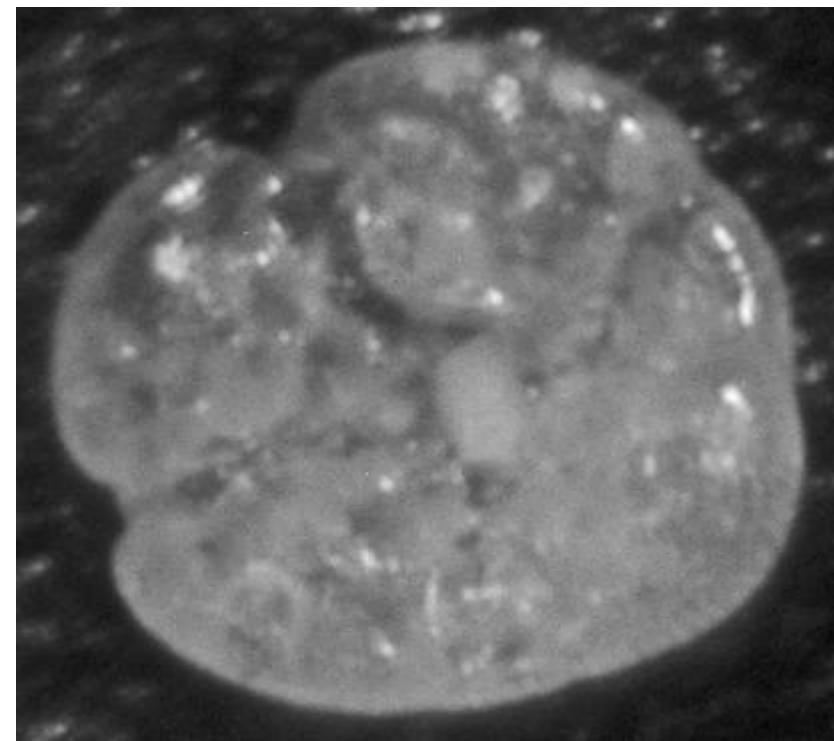
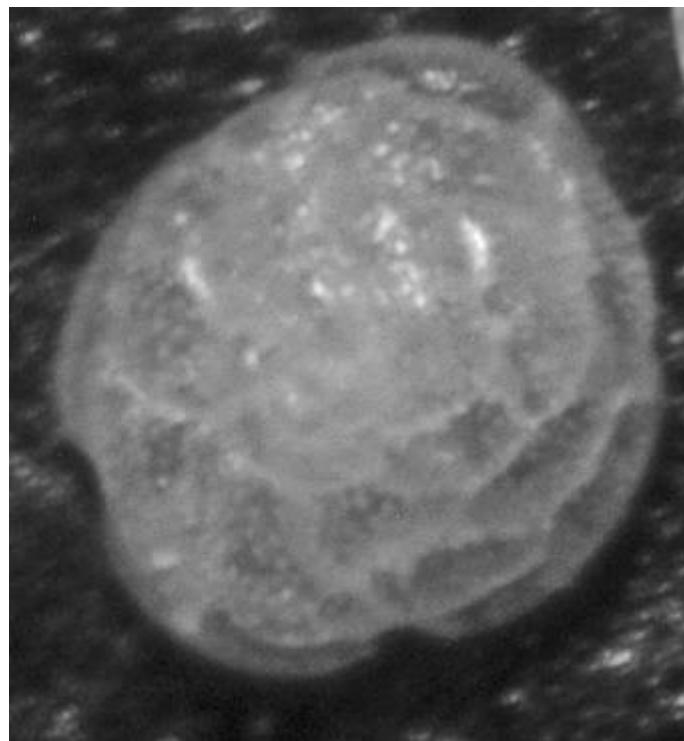
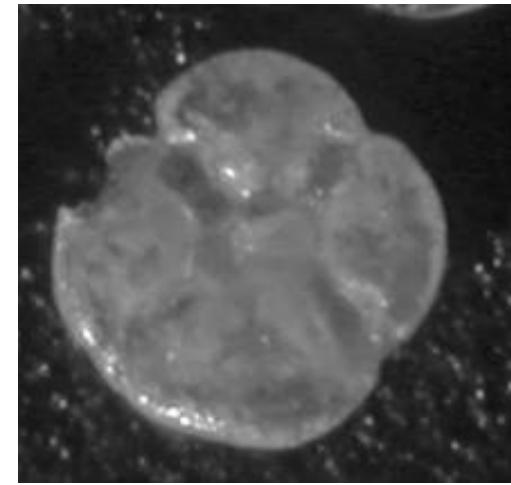


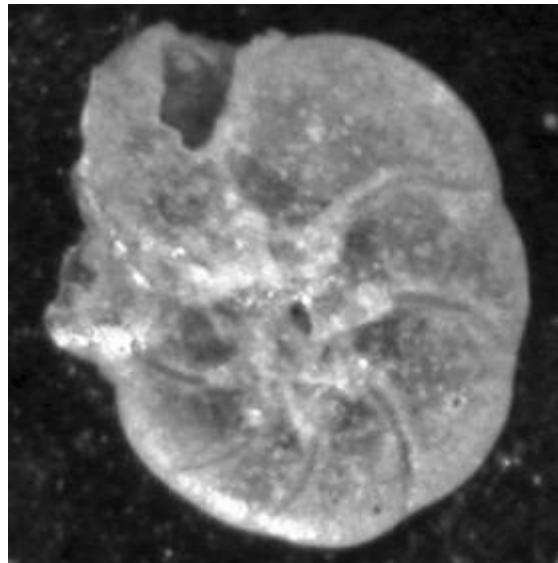
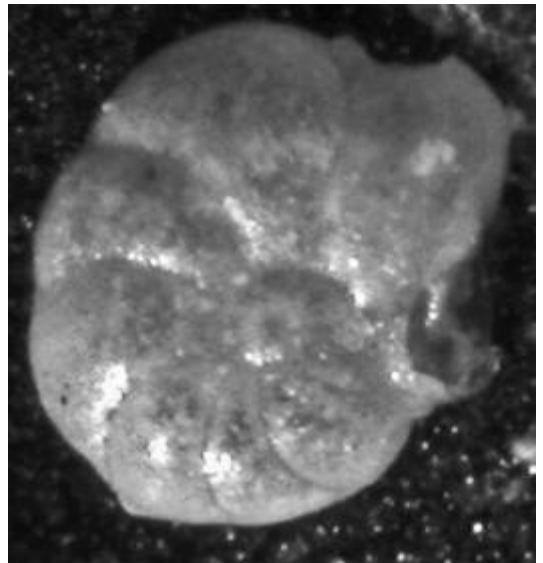
Umbilical views



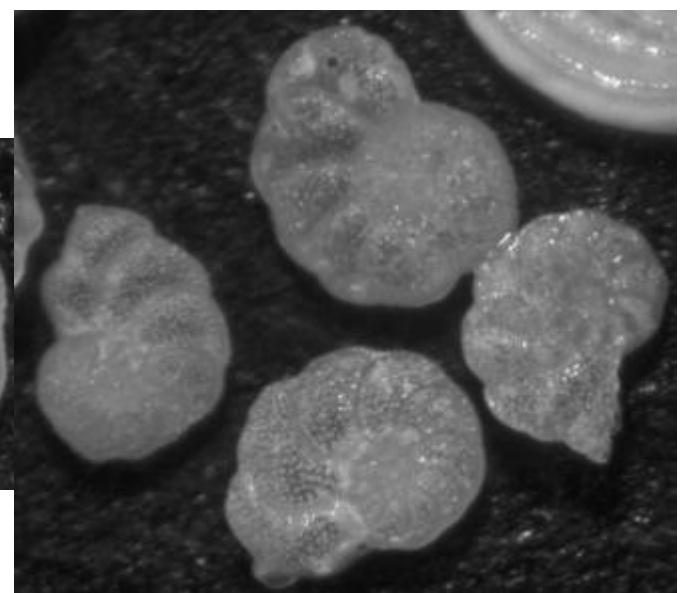
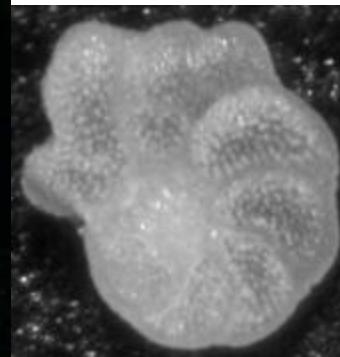
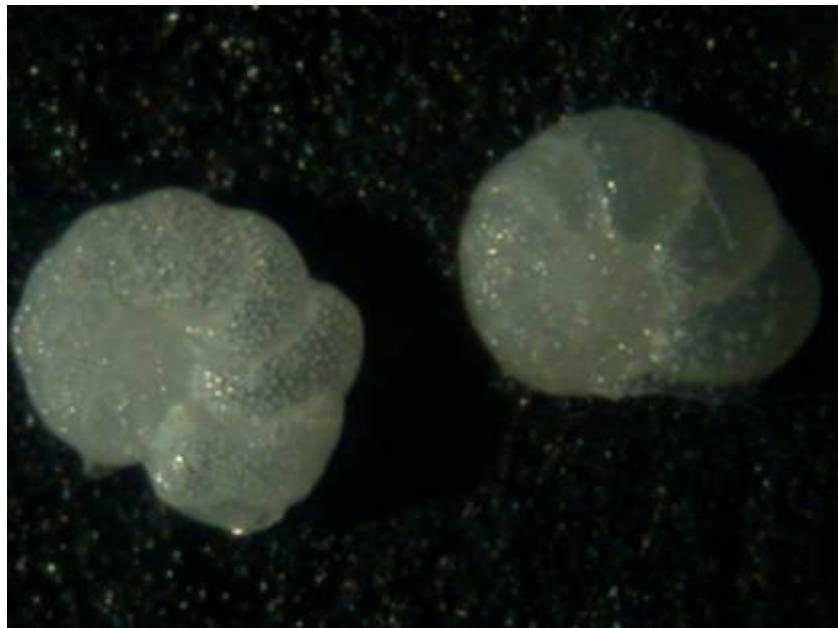
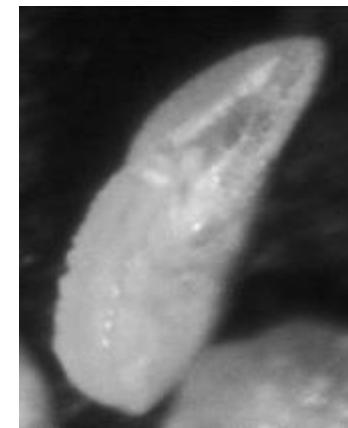


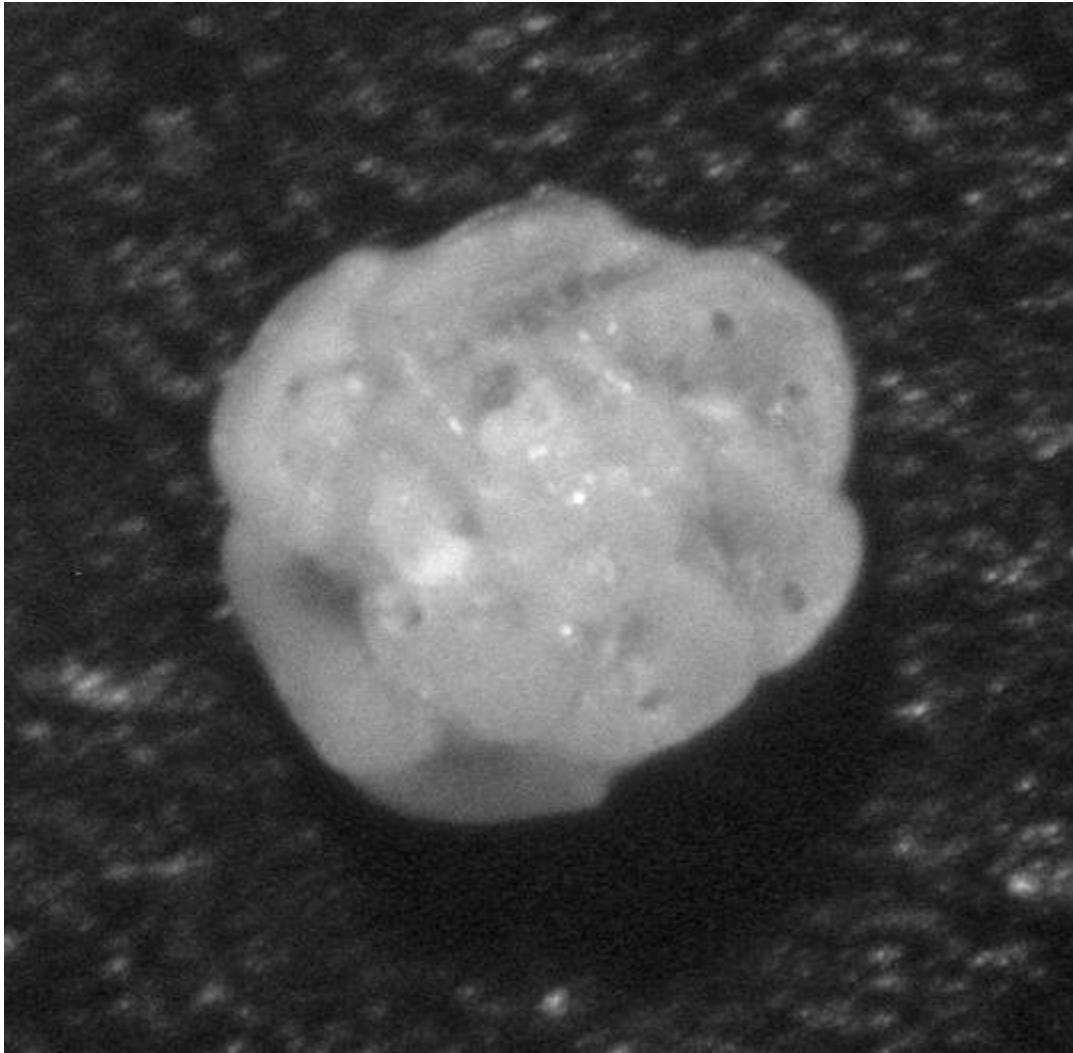
*Tretomphalus atlanticus*



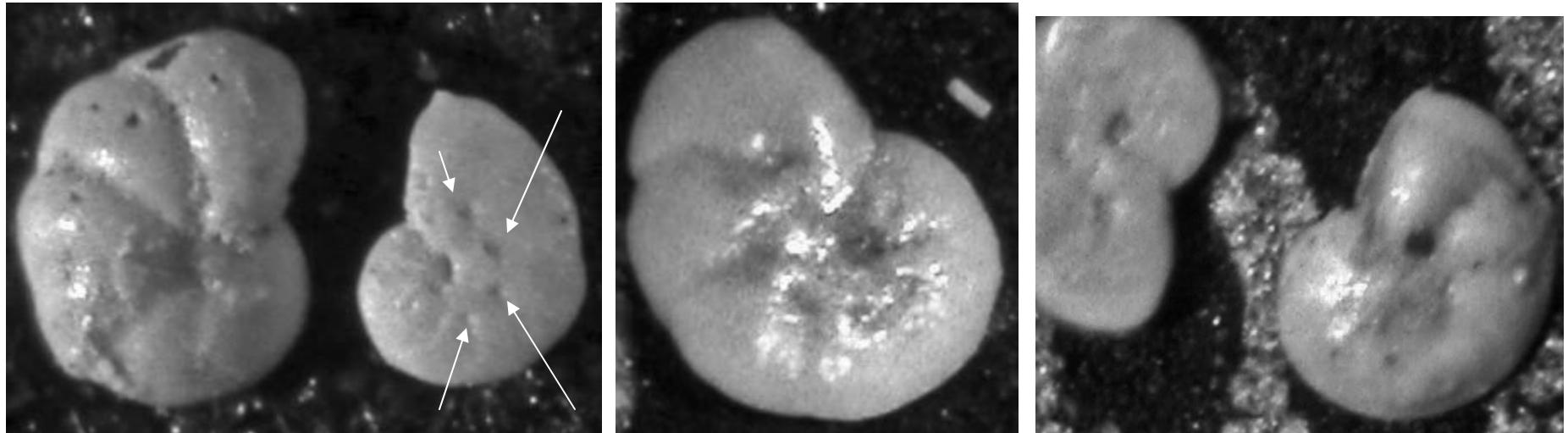


***Planulina exorna;***  
**planoconvex**

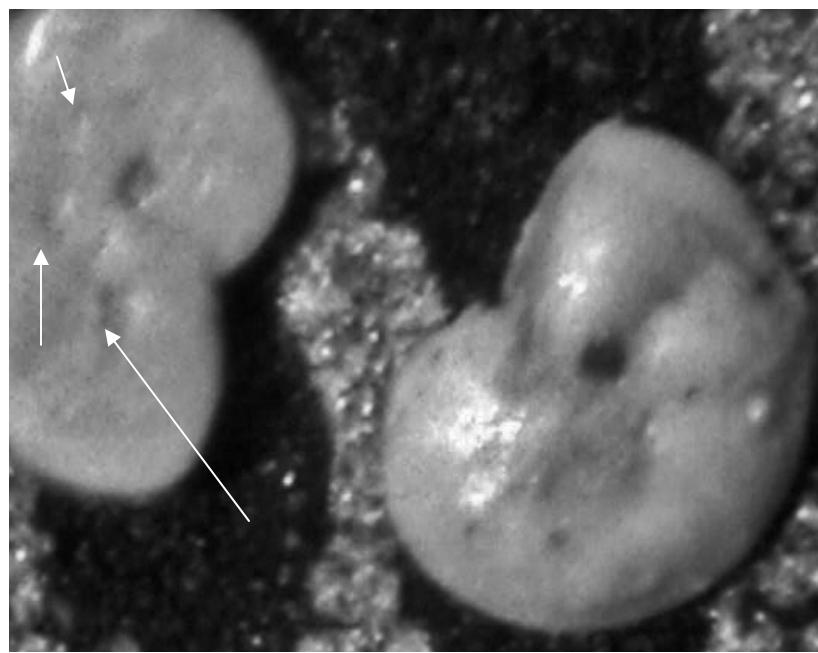
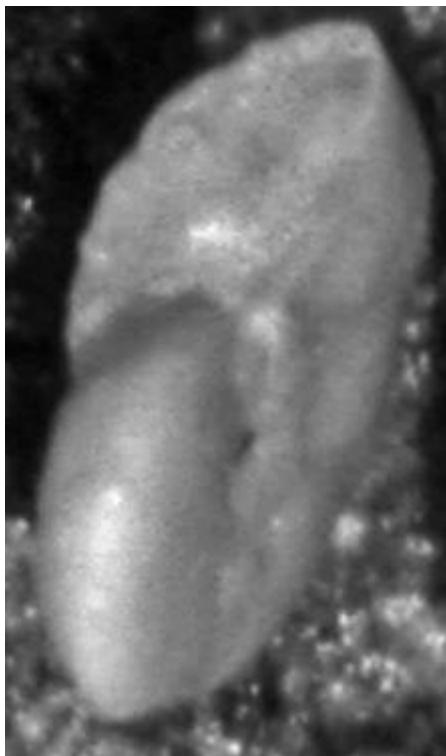




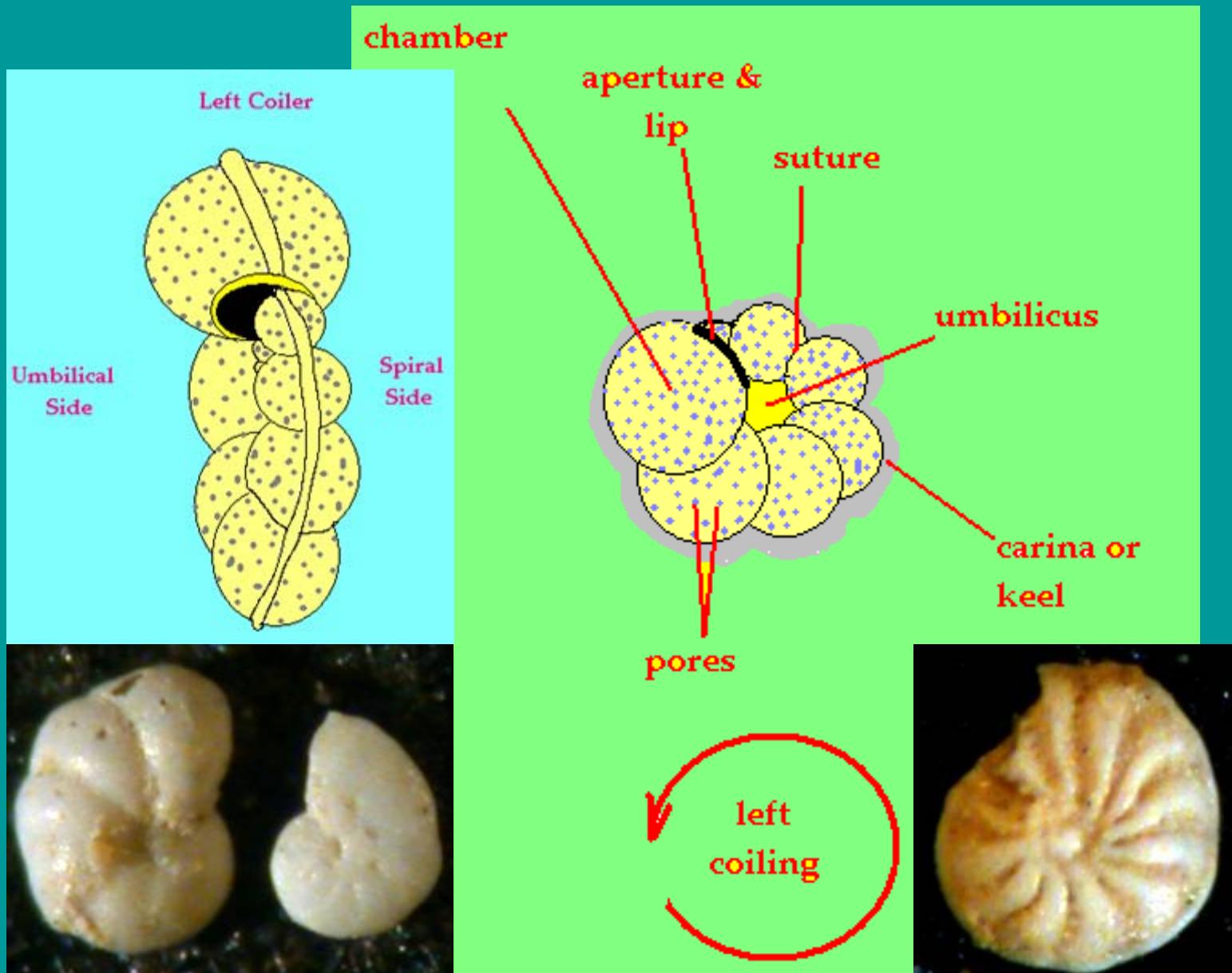
***Planulina foveolata***



***Hanzawaia concentrica*; planoconvex**



## *Basic 'Foram' Anatomy*

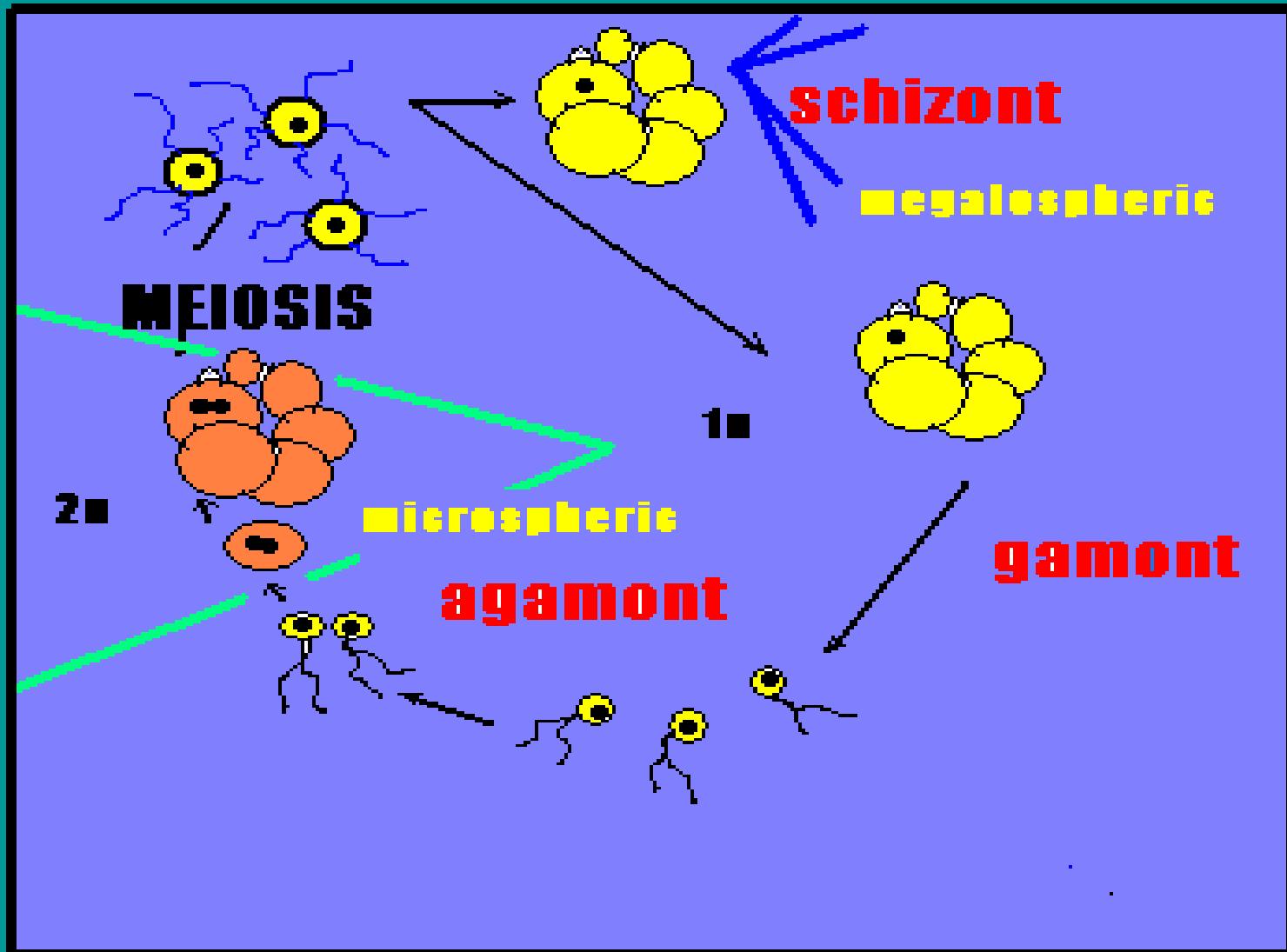


# Test Composition & Classification

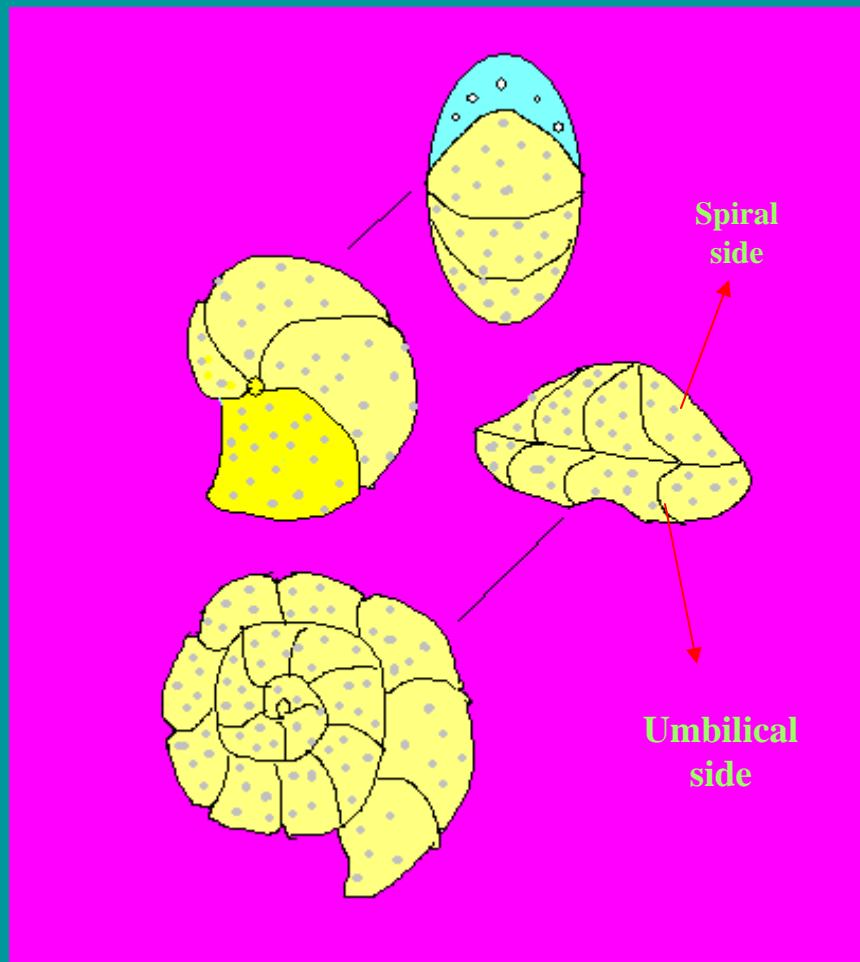
- **Organic-walled** (protein/mucopolysaccharide)-*Allogromia*
- **Agglutinated** ( particles cemented by CaCO<sub>3</sub>)-**Textulariids**
- **Secreted**- 3 types: 1) **Microgranular-Fusuliniids**  
2) **Porcelaneous** (imperforate)-**Miliolids**  
3) **Hyaline**- new layer added to test with each new **chamber-Globigerinids & Rotaliids**



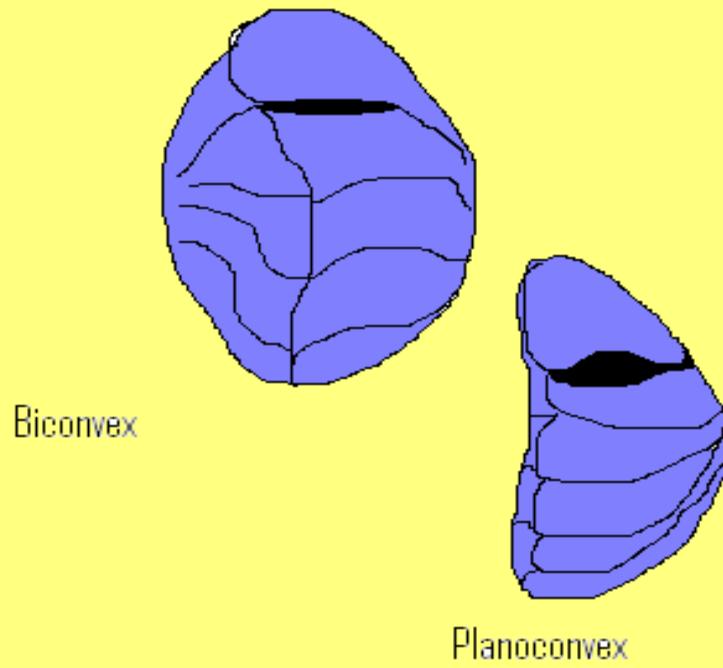
## *Simple Life Cycle of FORAMINIFERA*



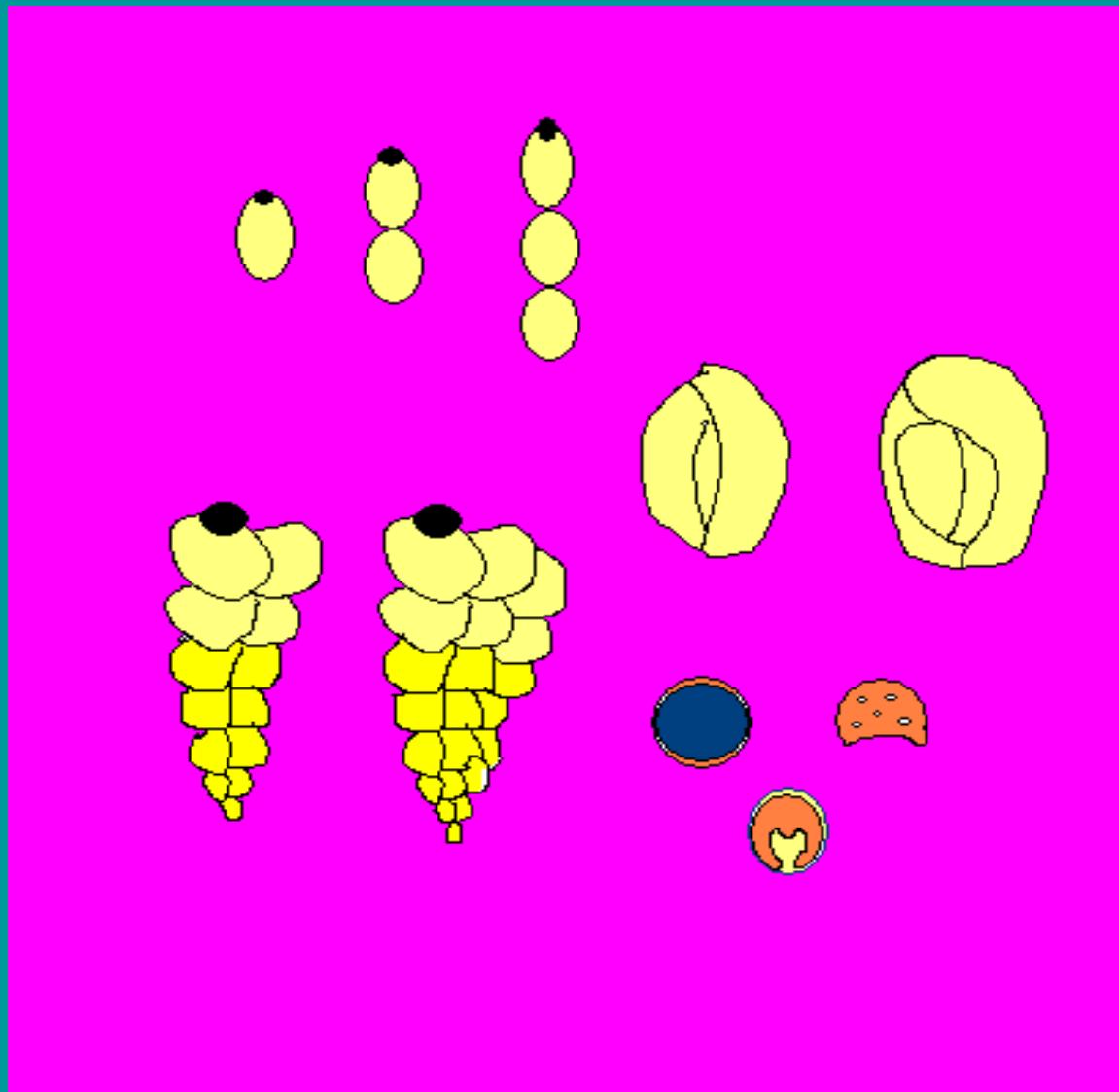
## Forams: Planispiral v.Trochospiral, Evolute v. Involute



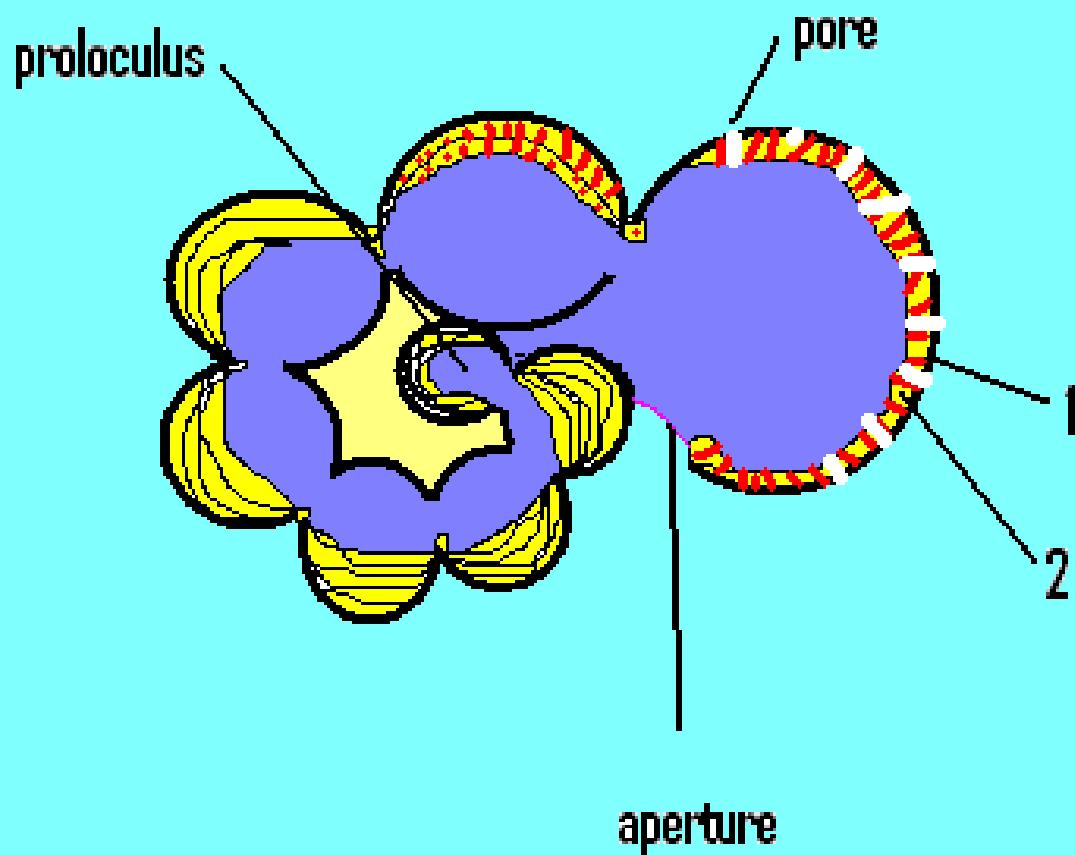
**Apertural View**

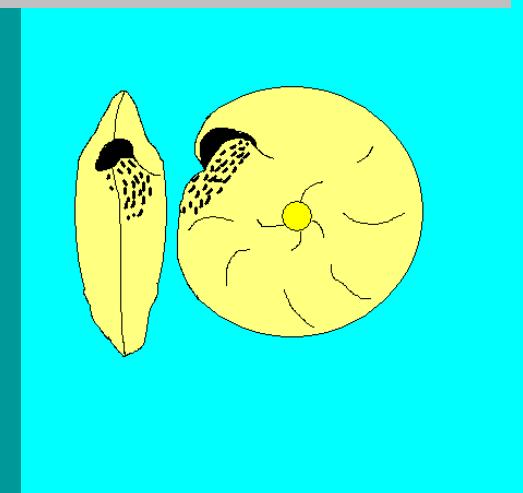
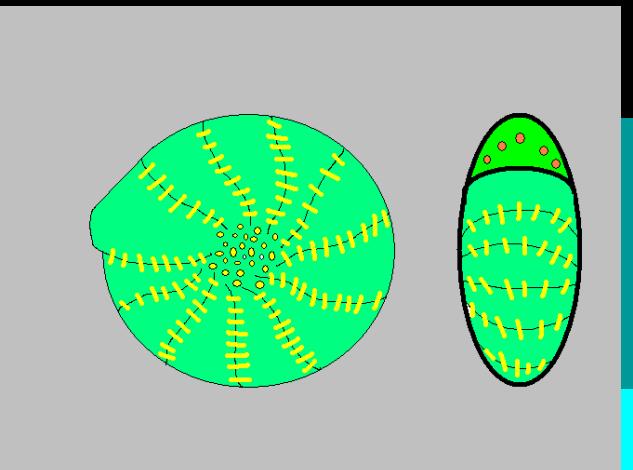
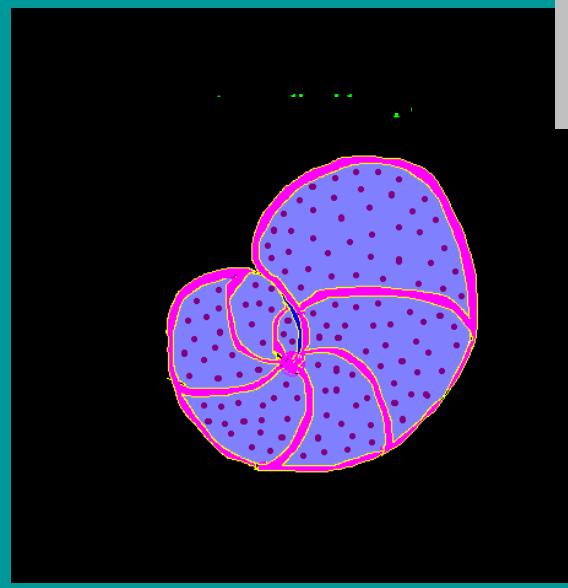
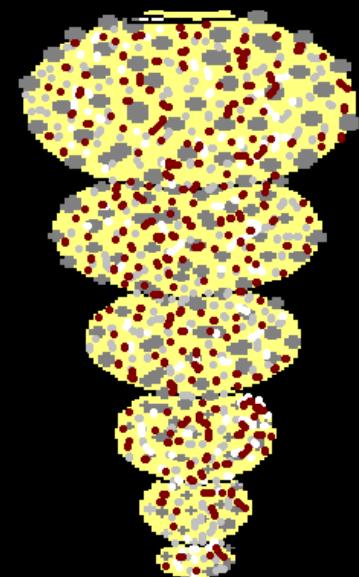
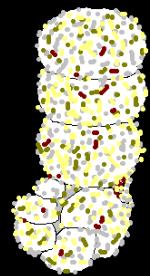
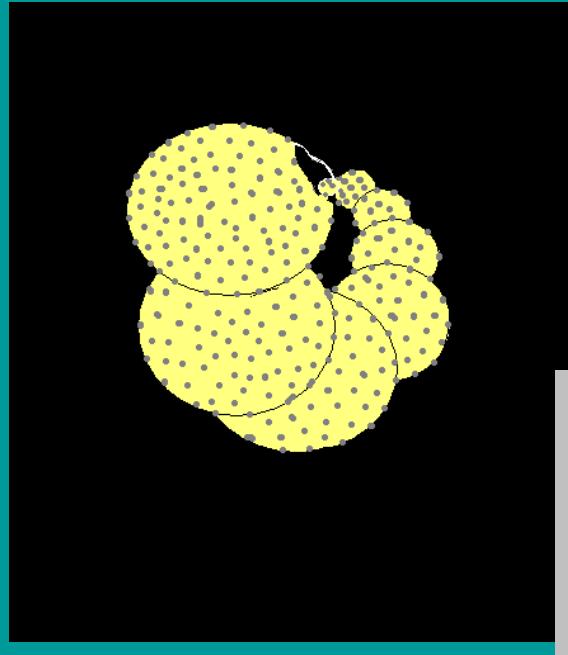


**Chambers: Uniserial, Biserial, Triserial; Unilocular, Bilocular, Trilocular; Leptospiral. Apertures: Cribriform, Toothed, Lipped**



Hyaline perforate: lamellar-radial  $\text{CaCO}_3$  xls





FOR MORE INFO:

[http://www.marine.usf.edu/reeflab/foramcd/html\\_files/titlepage.htm](http://www.marine.usf.edu/reeflab/foramcd/html_files/titlepage.htm)

[http://sofia.usgs.gov/publications/reports/mgs\\_bock1971/mgs\\_bock1971.pdf](http://sofia.usgs.gov/publications/reports/mgs_bock1971/mgs_bock1971.pdf)