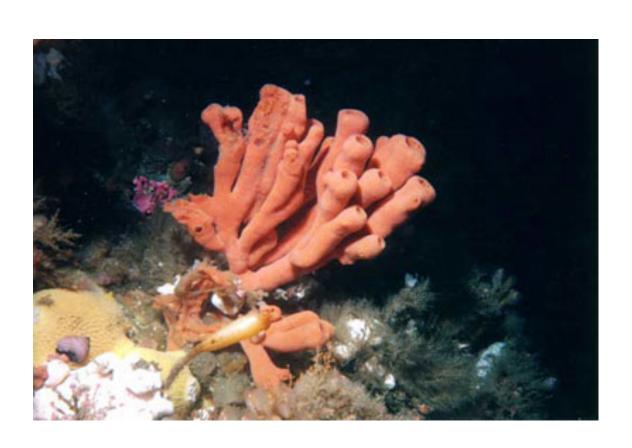
Phylum: Porifera By Landis



Introduction

Q: Are sponges animals? If so, why?

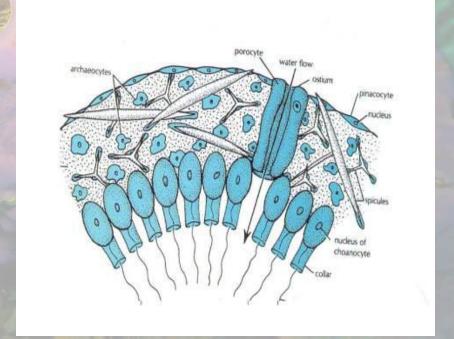


How do sponges survive as animals?

- Feeding: filter feeders, no digestive tract
- Respiration: by diffusion, no resp. system
- Circulation: by diffusion, no circ. system
- Excretion: by diffusion, no excretory syst.
- Response: simple response, no central nervous system
- Movement: only in larval stage, adults sessile
- Reproduction: can be sexual or asexual

Evolutionary Trends seen in Sponges

- Cell specialization:
 - Amoebocytes digest food
 - Porocytes allow water in/out
- Early development: neither protostome nor
 - deuterostome
- Body symmetry: none
- Cephalization: none
- Body cavity: none



Examples & Fun Facts

- Asconoid Sponges fun fact: simple tube shape!
- Syconoid Sponges fun fact: thicker tube shape!
- Leuconoid Sponges fun fact: can be used in the bath!

Asconoid



Syconoid



Leuconoid



Citations:

- Miller & Levine, <u>Biology</u>, Prentice Hall: 2002.
- http://www.ucmp.berkeley.edu/porifera/ porifera.html
- http://www.earthlife.net/inverts/ porifera.html