



Research in my lab uses microscopy to study cell behavior in embryos and larvae. Possible projects include: introducing fluorescent protein probes into jellyfish or barnacle embryos to study cell division and cell shape change; characterizing the pathogenesis caused by a newly-discovered intracellular parasite that infects the eggs of local nemertean worms; studying the patterns of contractile protein recruitment in response to stimulators and regulators in eggs and embryos of sea urchins and starfish; or investigating the cellular mechanism by which barnacle larvae manufacture extracellular cuticular devices. All of these will involve working with eggs, embryos, or larvae of various invertebrates, and all will involve some combination of fluorescence, time-lapse, and confocal microscopy.