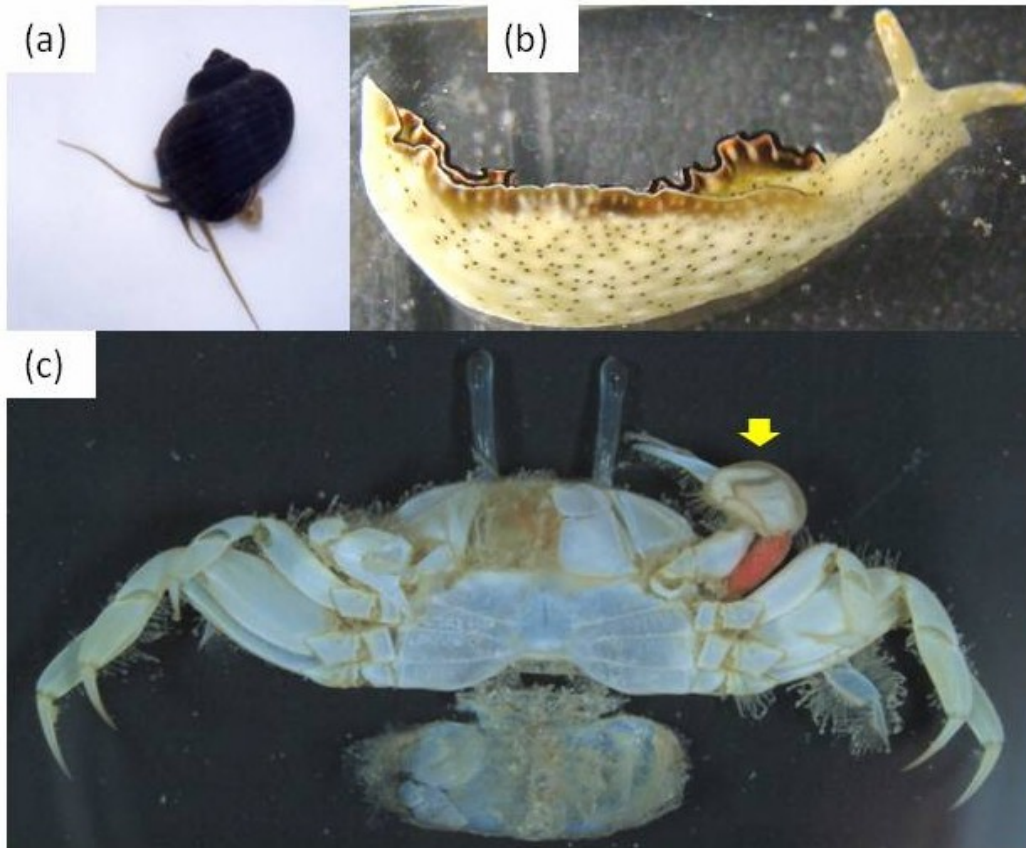


Ecology, behaviour, and evolutionary studies on freshwater and marine invertebrates

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(a) An invasive snail, *Pomacea canaliculata*; (b) a sacoglossan *Elysia* sp.;
(c) an endangered barnacle, *Octolasmis unguisiformis* (arrow).

I am interested in aquatic invertebrates in general, hoping to elucidate how diversity and underlying general rules are produced and maintained. In particular, I study 1) the diversity of sexual systems of barnacles (hermaphroditism, androdioecy, and dioecy), as found by Charles Darwin; 2) sex determination in molluscs (a small number of nuclear genes may determine the sex in *Pomacea canaliculata*); 3) the relationships among an important alien species, the apple snail *Pomacea canaliculata*, and the other alien/native species; 4) sacoglossan sea slugs that “steal” chloroplasts from their food algae, etc. To this aim, I combined both field observations and laboratory experiments with many collaborators worldwide.

Keywords : mollusc, crustacea, sex, life history, species interaction