



Specimens requested for molecular study

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As part of a project to document beetle diversity throughout California, I am examining genetic relationships among populations of about 30 commonly encountered species. I would be deeply grateful for assistance in obtaining large samples of these species from various areas of the state (up to 10 specimens per locality). I have prepared this illustrated guide to the species I will be examining. Most are easily distinguished from other members of their families in California. For the near term I am obliged to concentrate primarily on populations in southern California, but samples from other areas would be welcome and put to good use eventually.

Specimens would be most useful if sent live. Most of these species should survive in the mail a couple days in a small vial with a little padding (in the vial and around the vial). Otherwise, specimens in >95% ethanol should suffice. The ideal specimen would be accompanied by precise GPS coordinates, or other high precision description of locality. This is particularly important for this study as the exact geographical relationships among genotypes are being analyzed directly.

Thank you for your help, and don't hesitate to call, email, or visit if you have any questions. Please visit the project website for additional information:

www.sbnature.org/collections/invert/entom/cbphomepage.htm

The beetles (see next page for photos/collecting notes)

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| Calathus ruficollis (Carabidae) | Pacificanthia consors (Cantharidae) |
| Stictotarsus striatellus (Dytiscidae) | Orphilus subnitidus (Nosodendridae) |
| Anacaena signaticollis (Hydrophilidae) | Hesperobaenus abbreviatus (Monotomidae) |
| Cercyon fimbriatus (Hydrophilidae) | Uleiota truncatus (Silvanidae) |
| Xerosaprinus fimbriatus (Histeridae) | Xerasia grisescens (Byturidae) |
| Hypocaccus lucidulus (Histeridae) | Hadraule blaisdelli (Ciidae) |
| Neopachylopus sulcifrons (Histeridae) | Phloeodes diabolicus (Zopheridae) |
| Necrophilus hydrophiloides (Agyrtidae) | Phloeodes plicatus (Zopheridae) |
| Nicrophorus nigrita (Silphidae) | Nyctoporis carinatus (Tenebrionidae) |
| Sepedophilus castaneus (Staphylinidae) | Coelus ciliatus (Tenebrionidae) |
| Hadrotus crassus (Staphylinidae) | Prionus californicus (Cerambycidae) |
| Thinopinus pictus (Staphylinidae) | Ipochus fasciatus (Cerambycidae) |
| Loricaster rotundus (Clambidae) | Deporaeus glastinus (Attelabidae) |
| Eubrianax edwardsii (Psephenidae) | Geodercodes latipennis (Curculionidae) |
| Zarhipis integripennis (Phengodidae) | Ips paraconfusus (Curculionidae) |

Species requested for molecular study by M. Caterino



Calathus ruficollis
9mm, nocturnal, esp.
near water



Stictotarsus striatellus
4mm, stream edges
and ponds



Anacaena signaticollis
2-3mm, stream edges
and ponds



Cercyon fimbriatus
2-3mm, under kelp
wrack



Xerosaprinus fimbriatus
4mm, carrion and dung



Hypocaccus lucidulus
4mm, under coastal
dune plants



Neopachylopus sulcifrons
6mm, under kelp



Necrophilus hydrophiloides
8mm, carrion, dung, fungus



Nicrophorus nigrita
12-16mm, carrion,
comes to light



Sepedophilus castaneus
5-6mm, fungus, litter,
under bark



Hadrotus crassus
14mm, under kelp
wrack



Thinopinus pictus
16mm, under kelp
wrack



Loricaster rotundus
1.5mm, leaf litter



Eubrianax edwardsii
5mm, most common
water penny, on stream
rocks (larvae OK!)



Zarhipis integripennis
12mm, males at light,
females flightless
glowworms



Pacifanthia consors
15-20mm, our largest
soldier, esp. common
at light



Orphilus subnitidus
3mm, on flowers
with *Anthrenus*



Hesperobaenus abbreviatus
5mm, under oak bark



Uleiota truncatus
8mm, under bark
oak, pine, other



Xerasia grisescens
4mm, beat from oak
foliage



Hadraule blaisdelli
1.5mm, bicolored, flat
ciid in drier polypores



Phloeodes diabolicus
16-20mm, wanders at
dusk, under loose bark,
larger grey ironclad



Phloeodes plicatus
12-18mm, wanders at
dusk, under loose bark,
smaller brown ironclad



Nyctoporis carinatus
15mm, under loose
bark



Coelus ciliatus
7mm, in sand under
coastal dune plants



Prionus californicus
20-40mm, at lights
near oaks



Ipochus fasciatus
6-7mm, beaten from
various plants, esp.
Rhus



Deporaeus glastinus
5mm, on oaks, mainly
when in flower



Geodercodes latipennis
3mm, various moist leaf
litters



elytral
apex



Ips paraconfusus
6mm, under bark
freshly killed *Pinus*,
Lindgren traps