**Table 1.** Proportion of genetic variation distributed at between volcanoes and among sites within volcanoes.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Group** | **Species** | **Island(s)** | **Data**  (# individuals:  length/  # markers) | **Between Volcanoes**  %  variation  (p-value)  % variation (p-value) | **Among sites**  **within volcanoes**  % variation (p-value) | **Data source** | **Timeframe**  citation |
| **Planthoppers** | *Nesosydne chambersi* | Hawaii | mtDNA  COI (187:653)  msat  (292:13) | 0.05\*\*\*  --  0.04\*\*\* | 0.77\*\*\*  --  0.21\*\*\* | Goodman et al. 2012 | WSD1: Saddle Road pops=2.6 (95% HPD: 1.2-35.1) x 103yrs  WSD1: Mauna Kea/Mauna Loa pops: 20.1 (95%HPD: 7.4-135.0) x 103yrs  Goodman et al. 2012 |
|  | *Nesosydne raillardiae* | Hawaii | mtDNA  COI (33:581) | 0.26\*\*\* | 0.49\*\*\* | this paper | na |
|  | *Nesosydne bridwelli* | Maui | mtDNA  COI (34:677) | na | 0.18\*\* | this paper | na |
| **Psyllids** | *Trioza*  *HB4* | Hawaii | mtDNA  COI &  cytB (29:857) | -0.14\*\*\* | 0.92\*\*\* | this paper | na |
|  | *Trioza*  *HC4* | Hawaii | mtDNA  COI &  cytB (17:857) | 0.17\*\* | 0.53\*\* | this paper | na |
| **Fly** | *Drosophila sproati* | Hawaii | mtDNA  COII (232:570) | 0.11\*\*\* | 0.81\*\*\* | Eldon et al. 2013 | Max age2=1.15  (95%HPD: 0.75-1.5) my.  Magnacca and Price, in review |
| **Cricket** | *Laupala cerasina* | Hawaii | AFLP (631) | 0.30\*\*\* | 0.58\*\*\* | Mendelson and Shaw 2005 | na |
| **Spiders** | *Tetragnatha anuenue* | Hawaii | mtDNA COI (162: 607)  allozymes (12:9) | 0.23\*\*\*  na | 0.041\*\*\*  na | Roderick et al. 2012 | na |
|  | *Tetragnatha brevignatha* | Hawaii | mtDNA COI (54:605) | 0.16\* | 0.00 | Roderick et al. 2012 | *T. macracantha*  Max age2=0.34  (95%HPD: 0.14-0.58) my.  *Supplementary info, this paper* |
|  | *Tetragnatha quasimodo* | Hawaii | mtDNA COI (149:439)  allozymes (46:9) | 0.09\*\*\*  0.34\*\*\* | 0.037\*\*\*  na | Roderick et al. 2012 | Node age2=0.80  (95%HPD: 0.50-1.16) my.  *Supplementary info, this paper* |
|  | *Theridion grallator* | Hawaii | mtDNA COI (209:1270)  allozymes (224:8) | 0.30\*\*\*  0.19\*\*\* | 0.05\*\*\*  na | Roderick et al. 2012 | Node age3=0.56  (95%HPD: 0.37-0.75) my.  Croucher et al. 2012 |
|  | *Ariamnes* *spp.* | Hawaii | mtDNA COI (8:420) | 0.05 | na | Roderick et al. 2012 | na |

\*\*\* < 0.001, \*\* < 0.05, \*<0.10

na = no information available

1WSD=Within-species divergence, estimated using IM.

2Max age= the node age of the phylogenetic split between this species and its sister species, calculated using divergence dating analyses performed in BEAST. In most cases, this will be an overestimate of the node age of the species itself, but is the best information we have at present.

3Node age=Age of the most recent common ancestor of the monophyletic group on Hawaii Island, estimated using BEAST.

4 These *Trioza* species are in the process of being described; HB and HC are their provisional identifiers (Percy in prep).