**Supplemental material**

**First report of the Hawaiian genus *Newhousia* (Dictyotales, Phaeophyceae) from Madang, Papua New Guinea and description of the new species *N. yhaga* sp. nov.**

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DOI  10.1515/bot-2015-0095

**Supplemental Table** **S1.** GenBank accession numbers for the sequences of the Phaeophycean species used in this study.

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| --- | --- | --- | --- |
| **Species** | ***cox*3** | ***rbc*L** | ***psb*A** |
| *Canistrocarpus cervicornis* | LN871906 | DQ472073 | LN831806 |
| *Choristocarpus tenellus* | - | AB899285 | AB899261 |
| *Cladostephus spongiosus* | - | FN667651 | - |
| *Cutleria multifida* | LC074884 | AB776782 | AB543588 |
| *Desmarestia ligulata* | EU681444 | AJ287848 | EU681637 |
| *Discosporangium mesarthrocarpum* | - | AB252654 | AB899262 |
| *Ectocarpus siliculosus* | AB526435 | AY307410 | FP102296 |
| *Fucus vesiculosus* | AY494079 | DQ307680 | DQ307679 |
| *Ishige okamurae* | FJ427586 | AY372975 | AY528830 |
| *Homoestrichus sinclairii* | KU249204\* | DQ866935 | DQ866953 |
| *Dictyopteris polypodioides* | EU681445 | DQ472042 | KP995231 |
| *Taonia atomaria* |  KU249205\* | EU579938 | KU249199\* |
| *Stypopodium flabelliforme* | - | DQ866927 | DQ866949 |
| *Regulopteryx okamurae* | GQ425147 | KJ000694 | FJ869845 |
| *Lobospira bicuspidata* | KU249207\* | AF353379 | KU249198\* |
| *Dilophus robustus2* | KU249206\* | KU249200\* | KU249197\* |
| *Laminaria digitata* | AJ344328 | AY372984 | AY528849 |
| *Phaeothamnion confervicola* | - | AF064746 | HQ710732 |
| *Schizocladia schiensis* | - | AB085615 | AY528859 |
| *Sphacelaria divaricata* | - | AJ287889 | AY528855 |
| *Syringoderma phinneyi* | EU681467 | AJ287868 | AY528858 |
| *Undaria pinnatifida* | GQ368282 | GQ368325 | GQ368354 |
| *Lobophora rosacea* | KM487941 | KM488111 | KM488009 |
| *Zonaria diesingiana* | AB665390 | AB899260 | AB899284 |
| *Distromium decumbens* | - | AY422683 | AY422645 |
| *Padina arborescens* | JQ363941 | JQ364049 | AY430357 |
| *Padina crassa* | JQ363960 | AB358909 | AY422643 |
| *Padina australis* | JQ363945 | AB690272 | KU249196\* |
| *Padina stipitata* | JQ364038 | JQ364135 | - |
| *Newhousia imbricata* | - | EF990240 | - |
| *Newhousia yhaga* IRD11128 | KU249203\* | KU249201\* | KU249195\* |
| *Newhousia yhaga* IRD11129 | - | KU249202\* | - |

\* Sequences generated in this study.