

2012

An analysis of the meroplankton assemblages of Station L4 and the development and application of molecular techniques to aid taxonomic resolution.

Highfield, James

<http://hdl.handle.net/10026.1/1171>

<http://dx.doi.org/10.24382/3260>

University of Plymouth

All content in PEARL is protected by copyright law. Author manuscripts are made available in accordance with publisher policies. Please cite only the published version using the details provided on the item record or document. In the absence of an open licence (e.g. Creative Commons), permissions for further reuse of content should be sought from the publisher or author.

**APPENDIX 5. CONSENSUS SEQUENCES OF THE mtCOI GENE OF
UPOGEBIA, *PISIDIA LONGICORNIS*, & *PORCELLANA PLATYCHELES*.**

APPENDIX 5

Pisidia longicornis consensus sequence (mtCOI)

AACTTTATATTTTATATTCGGAGCTTGRGCTGGAATAGTTGGTACTTCATTAAGTT
TAATTATTCGAGCTGAATTGGGACAACCTGGAAGTTTAATTGGAGATGACCAGAT
TTACAATGTTGTTGTAACAGCTCATGCTTTTGTTATGATTTTCTTTATAGTTATGCC
TATTTTAATTGGAGGGTTTGGAAGCTGATTAGTTCCATTAATGCTTGGAGCCCCA
GATATGGCTTTCCCTCGAATGAATAATAAGATTTTGACTTCTTCCCCCGCATT
AACTCTCCTTTTAATAAGAGGTCTAGTTGAAAGAGGTGTGGGTACAGGATGAACT
GTTTATCCYCCCTTATCAGCTAATATTGCTCATGCAGGAGCTTCTGTAGAYATGG
GAATTTTTTCTCTTCACCTGGCTGGAGTTTCTTCCATTTTAGGTGCTGTRAATTTTA
TCTCTACAATTATTAACATACGATCTAATGGGATAACTTTTGATCGATTACCTCTT
TTCGTTTGATCTGTGTTTATTACAGCGATCTTACTCTTACTATCACTACCTGTYTTA
GCGGGAGCTATTACCATGTTACTAACAGATCGAAATTTAAACACTTCTTTCTTTG
ACCCTGCTGGAGGGGGWGACCCTATTCTTTACCAACATTTATTT

Porcellana platycheles consensus sequence (mtCOI)

GACATTATATTTTATATTTGGAGCTTGAGCTGGAATAGTTGGTACTTCATTAAGGT
TAATTATTCGAGCTGAACTAGGTCAACCAGGAAGGTTAATTGGAGACGATCAAA
TTTATAACGTGGTAGTTACCGCTCATGCTTTTGTAATAATTTTTTTTATGGTTATG
CCAATTTTGATTGGAGGTTTTGGAAGCTGACTAGTTCCTCTAATATTAGGAGCTCC
TGATATAGCTTTCCACGAATGAATAACATAAGATTTTGACTTCTTCTCCAGCTT
TGACTCTTCTTTTAATAAGAGGATTAGTTGAAAGAGGAGTTGGAAGCTGGATGGAC
TGTTTATCCCCCTTTATCATCAAATATTGCTCATGCAGGAGCTTCAGTTGATATGG

GTATTTTTCTCTTCATTTAGCAGGAGTATCTTCTATTTTAGGAGCTGTAAATTC
ATTTCAACTATTATTAATATACGGTCAGCTGGAATAACTTTTGATTGCATACCATT
ATTCGTTTGATCTGTTTTTATTACAGCTATTTACTTCTTCTCATTACCTGTTCT
AGCAGGGGCAATTACTATACTGTTAACAGATCGTAATTTAAATACATCATTCTTT
GATCCAGCAGGAGGAGGAGATCCTATTCTATATCAGCATCTATTC

Upogebia deltaura consensus sequence (mtCOI)

AACTTTATATTTTATATTCGGAGCATGAGCCGGAATAGTAGGTACATCTTTAAGA
TTAATTATTCGAGCAGAATTRGGACAACCAGGTAAGATTAATTGGAGATGATCA
AATTTATAATGTTGTAGTCACCGCGCATGCATTYGTAAATAATTTTTTTTYATAGTAA
TACCTATTATAATTGGAGGATTTGGAAATTGATTAGTGCCCCTAATACTTGGGGC
TCCAGATATAGCRTTTCCTCGTATAAATAATATAAGATTCTGACTCCTACCYCCCT
CGCTAACGCTTTTATTAATAAGAGGAATGGTAGAAAGAGGAGTAGGAACAGGAT
GAACTGTATAYCCACCACTATCAGCAGCTATTGCCACGCAGGTGCATCTGTAGA
TATAGGAATTTCTCTTTACATTTAGCAGGGGTATCATCTATTTTRGGTGCCGTAA
ATTTTATAACTACAGTTATTAATATACGACCTATTGGTATAACTATAGACCGTATR
CCTCTTTTTGTTTGATCAGTATTTATTACTGCTATTTTATTACTTTTATCACTTCCA
GTTTTAGCAGGAGCAATTACRATATTATTAACAGATCGAAATCTAAATACATCAT
TTTTTGATCCAGCAGGAGGAGGAGACCCATTTTATATCAACACTTATTT

Upogebia stellata consensus sequence (mtCOI)

CACACTATACTTTATATTTGGAGCATGGGCCGGRATAGTTGGTACATCTCTAAGA
CTAATCATTTCGAGCAGAATTAGGCCAACARGAAGACTAATTGGAGACGACCAA
ATTTATAATGTTGTAGTAACAGCCCACGCATTTGTTATAATCTTTTTTATAGTAAT
ACCCATTATAATTGGAGGATTTGGAAATTGACTAGTTCCCCTTATACTAGGAGCA
CCAGATATAGCATTCCCACGTATAAATAACATGAGATTCTGGCTCCTGCCCCCAT
CACTAACCTACTCCTGATAAGAGGAATAGTAGAAAGAGGAGTTGGCACAGGAT
GGACTGTCTACCCACCCCTTTCAGCGGCCATTGCTCACGCAGGAGCCTCTGTTGA
CATGGGAATTTTTTCCCTACACTTGGCGGGAGTATCTTCGATCCTAGGCGCCGTA
AATTTTATAACTACTGTTATTAACATGCGGCCACAGGCATGACCATAGACCGCA
TACCCTCTTTGTGTGATCGGTATTTATTACTGCAATCCTGCTCCTACTATCCCTC
CCGGTTCTAGCTGGAGCAATTACAATACTTCTTACTGATCGAAATCTAAACACAT
CTTTTTTCGATCCAGCAGGAGGGGGCGACCCAATCCTCTATCAACACCTATTT

Upogebia pusilla reverse sequence (mtCOI) – Forward sequence was incomplete.

GAGCATGAGCCGGAATAGTAGGTACATCTTTAAGATTAATTATTCGAGCAGAATT
AGGACAACCAGGAAGATTAATTGGAGATGATCAAATTTATAATGTTGTAGTCAC
CGCGCATGCATTCGTAATAATTTTTTTCATAGTAATACCTATTATAATTGGAGGGT
TTGGAAATTGATTAGTGCCCCTAATACTTGGGGCTCCAGATATAGCATTTCCTCG
TATAAATAATATAAGATTCTGACTCCTACCTCCCTCGCTAACGCTTTTATTAATAA
GAGGAATGGTAGAAAGAGGAGTAGGAACAGGATGAACTGTATATCCACCACTAT
CAGCAGCTATTGCCACGCAGGTGCATCTGTAGATATAGGAATTTTCTCTTTACA
TTTAGCAGGGGTATCATCTATTTTAGGTGCCGTAAATTTTATAACTACAGTTATTA
ATATACGACCTATTGGTATAACTATAGACCGTATACCTCTTTTTGTTTGATCAGTA

TTTATTACTGCTATTTTATTACTTTTATCACTTCCAGTTTTAGCAGGAGCAATTAC
GATATTATTAACAGATCGAAATCTAAATACATCATTTTTTTGATCCAGCAGGAGGA
GGAGACCCCATTTTATATCAACACTTATTT