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Branchiocerianthus imperator

Corymorphidae

Anthoathecata

76.11

|  |          |       |       |             |                   |                   |                                 |
|--|----------|-------|-------|-------------|-------------------|-------------------|---------------------------------|
| Branchiocerianthus imperator voucher MHNG:INVE 741 | JX121580 | 76.11 | 82.95 | 7.36628e-27 | Anthoathecata     | Corymorphidae     | Branchiocerianthus imperator    |
| Chordariaceae sp. 16 AP-2014 mitochondrial partial | LM995297 | 75    | 82.95 | 3.81583e-24 | Ectocarpales      | Chordariaceae     | Chordariaceae sp. 16 AP-2014    |
| Stilophora tenella mitochondrial partial COI gene  | LM994991 | 75    | 82.95 | 3.81583e-24 | Ectocarpales      | Chordariaceae     | Stilophora tenella              |
| Laminariocolax tomentosoides mitochondrial partial | LM994981 | 75    | 81.11 | 1.33185e-23 | Ectocarpales      | Chordariaceae     | Laminariocolax tomentosoides    |
| Laminariocolax tomentosoides mitochondrial partial | LM994980 | 75    | 81.11 | 1.33185e-23 | Ectocarpales      | Chordariaceae     | Laminariocolax tomentosoides    |
| Herpolitha limax mitochondrial COX1 gene for cytoc | AB441223 | 74.59 | 83.41 | 1.33185e-23 | Scleractinia      | Fungiidae         | Herpolitha limax                |
| Chordariaceae sp. 13 AP-2014 mitochondrial partial | LM995226 | 74.44 | 82.95 | 4.64863e-23 | Ectocarpales      | Chordariaceae     | Chordariaceae sp. 13 AP-2014    |
| Chordariaceae sp. 11 AP-2014 mitochondrial partial | LM995429 | 74.44 | 82.95 | 4.64863e-23 | Ectocarpales      | Chordariaceae     | Chordariaceae sp. 11 AP-2014    |
| Chordariaceae sp. 11 AP-2014 mitochondrial partial | LM995418 | 74.44 | 82.95 | 4.64863e-23 | Ectocarpales      | Chordariaceae     | Chordariaceae sp. 11 AP-2014    |
| Vetulina sp. 1 AS-2014 mitochondrial partial COI g | LN624212 | 75.6  | 77.42 | 4.64863e-23 | Sphaerocladina    | Vetulinidae       | Vetulina sp. 1 AS-2014          |
| Vetulina sp. 1 AS-2014 mitochondrial partial COI g | LN624211 | 75.6  | 77.42 | 4.64863e-23 | Sphaerocladina    | Vetulinidae       | Vetulina sp. 1 AS-2014          |
| Oulema obscura voucher ZMUO<FIN>:004378 cytochrome | KJ962897 | 74.44 | 82.95 | 4.64863e-23 | Coleoptera        | Chrysomelidae     | Oulema obscura                  |
| Plakinidae sp. BMOO-04639 cytochrome c oxidase sub | KC706753 | 75.6  | 77.42 | 4.64863e-23 | Homosclerophorida | Plakinidae        | Plakinidae sp. BMOO-04639       |
| Herpolitha limax isolate HrlimRZw cytochrome oxida | EU149866 | 74.58 | 81.57 | 1.62253e-22 | Scleractinia      | Fungiidae         | Herpolitha limax                |
| Demospongiae sp. GW6021 voucher BSPG-SNSB.GW6021 c | KU060750 | 75    | 77.42 | 5.66319e-22 |                   |                   | Demospongiae sp. GW6021         |
| Demospongiae sp. GW5961 voucher BSPG-SNSB.GW5961 c | KU060742 | 75    | 77.42 | 5.66319e-22 |                   |                   | Demospongiae sp. GW5961         |
| Demospongiae sp. GW5895 voucher BSPG-SNSB.GW5895 c | KU060728 | 75    | 77.42 | 5.66319e-22 |                   |                   | Demospongiae sp. GW5895         |
| Demospongiae sp. GW3563 voucher BSPG-SNSB.GW3563 c | KU060710 | 75    | 77.42 | 5.66319e-22 |                   |                   | Demospongiae sp. GW3563         |
| Demospongiae sp. GW3562 voucher BSPG-SNSB.GW3562 c | KU060709 | 75    | 77.42 | 5.66319e-22 |                   |                   | Demospongiae sp. GW3562         |
| Demospongiae sp. GW3559 voucher BSPG-SNSB.GW3559 c | KU060707 | 75    | 77.42 | 5.66319e-22 |                   |                   | Demospongiae sp. GW3559         |
| Demospongiae sp. GW3553 voucher BSPG-SNSB.GW3553 c | KU060704 | 75    | 77.42 | 5.66319e-22 |                   |                   | Demospongiae sp. GW3553         |
| Demospongiae sp. GW3335 voucher BSPG-SNSB.GW3335 c | KU060617 | 75    | 77.42 | 5.66319e-22 |                   |                   | Demospongiae sp. GW3335         |
| Demospongiae sp. GW3328 voucher BSPG-SNSB.GW3328 c | KU060614 | 75    | 77.42 | 5.66319e-22 |                   |                   | Demospongiae sp. GW3328         |
| Demospongiae sp. GW3243 voucher BSPG-SNSB.GW3243 c | KU060594 | 75    | 77.42 | 5.66319e-22 |                   |                   | Demospongiae sp. GW3243         |
| Chondrosia reniformis voucher MCZ.DNA105709 cytoch | JX999074 | 75    | 77.42 | 5.66319e-22 | Chondrillida      | Chondrillidae     | Chondrosia reniformis           |
| Chiropsalmus quadrumanus chromosome 4 mitochondrio | JN700970 | 73.77 | 84.33 | 5.66319e-22 | Chirodropida      | Chiropsalmidae    | Chiropsalmus quadrumanus        |
| Chondrosia reniformis mitochondrial partial cox1 g | AM076986 | 75    | 77.42 | 5.66319e-22 | Chondrillida      | Chondrillidae     | Chondrosia reniformis           |
| Mycetophilinae sp. BOLD:ACK8043 voucher BIOUG09649 | KR258319 | 73.89 | 82.95 | 1.97665e-21 | Diptera           | Mycetophilidae    | Mycetophilinae sp. BOLD:ACK8043 |
| Mycetophilinae sp. BOLD:ACK8043 voucher BIOUG09387 | KR248342 | 73.89 | 82.95 | 1.97665e-21 | Diptera           | Mycetophilidae    | Mycetophilinae sp. BOLD:ACK8043 |
| Mycetophilinae sp. BOLD:ACK8043 voucher BIOUG09395 | KR244463 | 73.89 | 82.95 | 1.97665e-21 | Diptera           | Mycetophilidae    | Mycetophilinae sp. BOLD:ACK8043 |
| Mycetophilinae sp. BOLD:ACK8043 voucher BIOUG09388 | KR237209 | 73.89 | 82.95 | 1.97665e-21 | Diptera           | Mycetophilidae    | Mycetophilinae sp. BOLD:ACK8043 |
| Oulema hoffmannseggii voucher BMNH:849731 cytochro | KF653865 | 73.89 | 82.95 | 1.97665e-21 | Coleoptera        | Chrysomelidae     | Oulema hoffmannseggii           |
| Ectocarpus filamentosus mitochondrial COX1 gene fo | LC060611 | 73.89 | 82.95 | 1.97665e-21 | Ectocarpales      | Ectocarpaceae     | Ectocarpus filamentosus         |
| Ectocarpus filamentosus mitochondrial COX1 gene fo | LC060609 | 73.89 | 82.95 | 1.97665e-21 | Ectocarpales      | Ectocarpaceae     | Ectocarpus filamentosus         |
| Ectocarpus filamentosus mitochondrial COX1 gene fo | LC060608 | 73.89 | 82.95 | 1.97665e-21 | Ectocarpales      | Ectocarpaceae     | Ectocarpus filamentosus         |
| Mycetophila sp. BOLD:ACB6502 voucher BIOUG05472-C0 | KM625687 | 73.89 | 82.95 | 1.97665e-21 | Diptera           | Mycetophilidae    | Mycetophila sp. BOLD:ACB6502    |
| Chordariaceae sp. 10 AP-2014 mitochondrial partial | LM995100 | 73.89 | 82.95 | 1.97665e-21 | Ectocarpales      | Chordariaceae     | Chordariaceae sp. 10 AP-2014    |
| Chordariaceae sp. 10 AP-2014 mitochondrial partial | LM995092 | 73.89 | 82.95 | 1.97665e-21 | Ectocarpales      | Chordariaceae     | Chordariaceae sp. 10 AP-2014    |
| Chordariaceae sp. 1 AP-2014 mitochondrial partial  | LM995396 | 73.89 | 82.95 | 1.97665e-21 | Ectocarpales      | Chordariaceae     | Chordariaceae sp. 1 AP-2014     |
| Acinetosporaceae sp. 17 AP-2014 mitochondrial part | LM995370 | 73.89 | 82.95 | 1.97665e-21 | Ectocarpales      | Acinetosporaceae  | Acinetosporaceae sp. 17 AP-2014 |
| Acinetosporaceae sp. 17 AP-2014 mitochondrial part | LM995369 | 73.89 | 82.95 | 1.97665e-21 | Ectocarpales      | Acinetosporaceae  | Acinetosporaceae sp. 17 AP-2014 |
| Oulema obscura voucher ZMUO<FIN>:004797 cytochrome | KJ965866 | 73.89 | 82.95 | 1.97665e-21 | Coleoptera        | Chrysomelidae     | Oulema obscura                  |
| Mycetophilidae sp. BOLD:ACE1139 voucher BIOUG18370 | KR506802 | 73.48 | 83.41 | 6.89918e-21 | Diptera           | Mycetophilidae    | Mycetophilidae sp. BOLD:ACE1139 |
| Mycetophilidae sp. BOLD:ACE1139 voucher BIOUG17936 | KR500571 | 73.48 | 83.41 | 6.89918e-21 | Diptera           | Mycetophilidae    | Mycetophilidae sp. BOLD:ACE1139 |
| Laminariocolax acidioides mitochondrial partial c  | LT546273 | 73.86 | 81.11 | 6.89918e-21 | Ectocarpales      | Chordariaceae     | Laminariocolax acidioides       |
| Laminariocolax acidioides mitochondrial partial c  | LT546270 | 73.86 | 81.11 | 6.89918e-21 | Ectocarpales      | Chordariaceae     | Laminariocolax acidioides       |
| Laminariocolax acidioides mitochondrial partial c  | LT546265 | 73.86 | 81.11 | 6.89918e-21 | Ectocarpales      | Chordariaceae     | Laminariocolax acidioides       |
| Mycetophilidae sp. BOLD:ACE1139 voucher BIOUG05824 | KR442741 | 73.48 | 83.41 | 6.89918e-21 | Diptera           | Mycetophilidae    | Mycetophilidae sp. BOLD:ACE1139 |
| Mycetophilidae sp. BOLD:ACE1139 voucher BIOUG04650 | KR434944 | 73.48 | 83.41 | 6.89918e-21 | Diptera           | Mycetophilidae    | Mycetophilidae sp. BOLD:ACE1139 |
| Demospongiae sp. GW5968 voucher BSPG-SNSB.GW5968 c | KU060743 | 74.4  | 77.42 | 6.89918e-21 |                   |                   | Demospongiae sp. GW5968         |
| Velkovrhia enigmatica isolate 874 cytochrome oxida | KT981918 | 74.56 | 77.88 | 6.89918e-21 | Anthoathecata     | Bougainvilliidae  | Velkovrhia enigmatica           |
| Mycetophilidae sp. BOLD:ACE1139 voucher BIOUG07538 | KM942429 | 73.48 | 83.41 | 6.89918e-21 | Diptera           | Mycetophilidae    | Mycetophilidae sp. BOLD:ACE1139 |
| Mycetophilidae sp. BOLD:ACE1139 voucher BIOUG06132 | KM941528 | 73.48 | 83.41 | 6.89918e-21 | Diptera           | Mycetophilidae    | Mycetophilidae sp. BOLD:ACE1139 |
| Mycetophilidae sp. BOLD:ACE1139 voucher BIOUG06135 | KM936468 | 73.48 | 83.41 | 6.89918e-21 | Diptera           | Mycetophilidae    | Mycetophilidae sp. BOLD:ACE1139 |
| Mycetophilidae sp. BOLD:ACE1139 voucher BIOUG06253 | KM934569 | 73.48 | 83.41 | 6.89918e-21 | Diptera           | Mycetophilidae    | Mycetophilidae sp. BOLD:ACE1139 |
| Mycetophilidae sp. BOLD:ACE1139 voucher BIOUG06327 | KM930274 | 73.48 | 83.41 | 6.89918e-21 | Diptera           | Mycetophilidae    | Mycetophilidae sp. BOLD:ACE1139 |
| Ricordea yuma mitochondrion, complete genome       | KP938441 | 74.56 | 77.88 | 6.89918e-21 | Corallimorpharia  | Ricordeidae       | Ricordea yuma                   |
| Hincksia mitchelliae mitochondrial partial COI gen | LM995323 | 73.48 | 83.41 | 6.89918e-21 | Ectocarpales      | Acinetosporaceae  | Hincksia mitchelliae            |
| Feldmannia irregularis mitochondrial partial COI g | LM995322 | 73.48 | 83.41 | 6.89918e-21 | Ectocarpales      | Acinetosporaceae  | Feldmannia irregularis          |
| Hincksia mitchelliae mitochondrial partial COI gen | LM995317 | 73.48 | 83.41 | 6.89918e-21 | Ectocarpales      | Acinetosporaceae  | Hincksia mitchelliae            |
| Microspongium tenuissimum mitochondrial partial CO | LM995146 | 73.86 | 81.11 | 6.89918e-21 | Ectocarpales      | Chordariaceae     | Microspongium tenuissimum       |
| Microspongium tenuissimum mitochondrial partial CO | LM995138 | 73.86 | 81.11 | 6.89918e-21 | Ectocarpales      | Chordariaceae     | Microspongium tenuissimum       |
| Microspongium tenuissimum mitochondrial partial CO | LM995094 | 73.86 | 81.11 | 6.89918e-21 | Ectocarpales      | Chordariaceae     | Microspongium tenuissimum       |
| Microspongium tenuissimum mitochondrial partial CO | LM995080 | 73.86 | 81.11 | 6.89918e-21 | Ectocarpales      | Chordariaceae     | Microspongium tenuissimum       |
| Laminariocolax acidioides mitochondrial partial C  | LM995048 | 73.86 | 81.11 | 6.89918e-21 | Ectocarpales      | Chordariaceae     | Laminariocolax acidioides       |
| Microspongium tenuissimum mitochondrial partial CO | LM994992 | 73.86 | 81.11 | 6.89918e-21 | Ectocarpales      | Chordariaceae     | Microspongium tenuissimum       |
| Spermatochnus paradoxus mitochondrial partial COI  | LM994990 | 73.86 | 81.11 | 6.89918e-21 | Ectocarpales      | Chordariaceae     | Spermatochnus paradoxus         |
| Feldmannia irregularis mitochondrial partial COI g | LM994987 | 73.48 | 83.41 | 6.89918e-21 | Ectocarpales      | Acinetosporaceae  | Feldmannia irregularis          |
| Laminariocolax macrocystis mitochondrial partial C | LM994982 | 73.86 | 81.11 | 6.89918e-21 | Ectocarpales      | Chordariaceae     | Laminariocolax macrocystis      |
| Hincksia mitchelliae mitochondrial partial COI gen | LM994977 | 73.48 | 83.41 | 6.89918e-21 | Ectocarpales      | Acinetosporaceae  | Hincksia mitchelliae            |
| Chordariaceae sp. 8 AP-2014 mitochondrial partial  | LM995428 | 73.86 | 81.11 | 6.89918e-21 | Ectocarpales      | Chordariaceae     | Chordariaceae sp. 8 AP-2014     |
| Feldmannia irregularis mitochondrial partial COI g | LM995427 | 73.48 | 83.41 | 6.89918e-21 | Ectocarpales      | Acinetosporaceae  | Feldmannia irregularis          |
| Chordariaceae sp. 8 AP-2014 mitochondrial partial  | LM995423 | 73.86 | 81.11 | 6.89918e-21 | Ectocarpales      | Chordariaceae     | Chordariaceae sp. 8 AP-2014     |
| Chordariaceae sp. 8 AP-2014 mitochondrial partial  | LM995394 | 73.86 | 81.11 | 6.89918e-21 | Ectocarpales      | Chordariaceae     | Chordariaceae sp. 8 AP-2014     |
| Feldmannia irregularis mitochondrial partial COI g | LM995389 | 73.48 | 83.41 | 6.89918e-21 | Ectocarpales      | Acinetosporaceae  | Feldmannia irregularis          |
| Feldmannia irregularis mitochondrial partial COI g | LM995387 | 73.48 | 83.41 | 6.89918e-21 | Ectocarpales      | Acinetosporaceae  | Feldmannia irregularis          |
| Feldmannia irregularis mitochondrial partial COI g | LM995373 | 73.48 | 83.41 | 6.89918e-21 | Ectocarpales      | Acinetosporaceae  | Feldmannia irregularis          |
| Petromica pacifica mitochondrial partial COI gene  | LN624194 | 74.56 | 77.88 | 6.89918e-21 |                   |                   | Petromica pacifica              |
| Petromica pacifica mitochondrial partial COI gene  | LN624193 | 74.56 | 77.88 | 6.89918e-21 |                   |                   | Petromica pacifica              |
| Alpha proteobacterium HIMB5, complete genome       | CP003809 | 74.56 | 77.88 | 6.89918e-21 | Pelagibacterales  | Pelagibacteraceae | alpha proteobacterium HIMB5     |
| Ricordea yuma mitochondrial COX1 gene for cytochro | AB441261 | 74.56 | 77.88 | 6.89918e-21 | Corallimorpharia  | Ricordeidae       | Ricordea yuma                   |
| Mycetophila sp. BOLD:ACB6502 voucher BIOUG04231-E0 | KR461666 | 73.33 | 82.95 | 2.40805e-20 | Diptera           | Mycetophilidae    | Mycetophila sp. BOLD:ACB6502    |
| Mycetophila sp. BOLD:ACB6502 voucher BIOUG03490-C1 | KR472046 | 73.33 | 82.95 | 2.40805e-20 | Diptera           | Mycetophilidae    | Mycetophila sp. BOLD:ACB6502    |
| Mycetophila sp. BOLD:ACB6502 voucher BIOUG06286-B0 | KM971097 | 73.33 | 82.95 | 2.40805e-20 | Diptera           | Mycetophilidae    | Mycetophila sp. BOLD:ACB6502    |
| Mycetophila sp. BOLD:ACB6502 voucher BIOUG06685-C0 | KM961037 | 73.33 | 82.95 | 2.40805e-20 | Diptera           | Mycetophilidae    | Mycetophila sp. BOLD:ACB6502    |
| Mycetophila sp. BOLD:ACB6502 voucher BIOUG06505-G0 | KM960825 | 73.33 | 82.95 | 2.40805e-20 | Diptera           | Mycetophilidae    | Mycetophila sp. BOLD:ACB6502    |
| Mycetophila sp. BOLD:ACB6502 voucher BIOUG06615-C0 | KM960051 | 73.33 | 82.95 | 2.40805e-20 | Diptera           | Mycetophilidae    | Mycetophila sp. BOLD:ACB6502    |
| Mycetophila sp. BOLD:ACB6502 voucher BIOUG06505-F1 | KM958720 | 73.33 | 82.95 | 2.40805e-20 | Diptera           | Mycetophilidae    | Mycetophila sp. BOLD:ACB6502    |
| Mycetophila sp. BOLD:ACB6502 voucher BIOUG06509-A0 | KM958105 | 73.33 | 82.95 | 2.40805e-20 | Diptera           | Mycetophilidae    | Mycetophila sp. BOLD:ACB6502    |
| Mycetophila sp. BOLD:ACB6502 voucher BIOUG05166-B0 | KM950747 | 73.33 | 82.95 | 2.40805e-20 | Diptera           | Mycetophilidae    | Mycetophila sp. BOLD:ACB6502    |
| Mycetophila sp. BOLD:ACB6502 voucher BIOUG06410-B0 | KM945025 | 73.33 | 82.95 | 2.40805e-20 | Diptera           | Mycetophilidae    | Mycetophila sp. BOLD:ACB6502    |
| Mycetophila sp. BOLD:ACB6502 voucher BIOUG06128-H0 | KM943950 | 73.33 | 82.95 | 2.40805e-20 | Diptera           | Mycetophilidae    | Mycetophila sp. BOLD:ACB6502    |
| Mycetophila sp. BOLD:ACB6502 voucher BIOUG04169-C0 | KM941657 | 73.33 | 82.95 | 2.40805e-20 | Diptera           | Mycetophilidae    | Mycetophila sp. BOLD:ACB6502    |
| Mycetophila sp. BOLD:ACB6502 voucher BIOUG06361-F0 | KM935999 | 73.33 | 82.95 | 2.40805e-20 | Diptera           | Mycetophilidae    | Mycetophila sp. BOLD:ACB6502    |
| Mycetophila sp. BOLD:ACB6502 voucher BIOUG08449-G0 | KM902115 | 73.33 | 82.95 | 2.40805e-20 | Diptera           | Mycetophilidae    | Mycetophila sp. BOLD:ACB6502    |
| Mycetophila sp. BOLD:ACB6502 voucher BIOUG06227-F0 | KM962904 | 73.33 | 82.95 | 2.40805e-20 | Diptera           | Mycetophilidae    | Mycetophila sp. BOLD:ACB6502    |
| Mycetophila sp. BOLD:ACB6502 voucher BIOUG06475-F0 | KM940150 | 73.33 | 82.95 | 2.40805e-20 | Diptera           | Mycetophilidae    | Mycetophila sp. BOLD:ACB6502    |
| Mycetophila sp. BOLD:ACB6502 voucher BIOUG03497-H0 | KM939404 | 73.33 | 82.95 | 2.40805e-20 | Diptera           | Mycetophilidae    | Mycetophila sp. BOLD:ACB6502    |
| Mycetophila sp. BOLD:ACB6502 voucher BIOUG06557-D0 | KM929934 | 73.33 | 82.95 | 2.40805e-20 | Diptera           | Mycetophilidae    | Mycetophila sp. BOLD:ACB6502    |
| Mycetophila sp. BOLD:ACB6502 voucher BIOUG03524-B0 | KM928111 | 73.33 | 82.95 | 2.40805e-20 | Diptera           | Mycetophilidae    | Mycetophila sp. BOLD:ACB6502    |