

Supporting information S5 - Supplementary Trees:

Species-level predation network uncovers high prey specificity in a Neotropical army ant community

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Content:

Figure 1. Neighbor-joining tree of *COI* barcodes of Neotropical ants.

Figure 2. RAxML tree of *COI* prey barcodes.

Figure 1. Neighbor-joining tree of *COI* barcodes of Neotropical ants. The NJ tree was created in BOLD with the tool 'Taxon ID tree'. We included prey barcodes of army ants and reference barcodes of the projects ASLAM, BCIFO, and ARCAE in the analysis. The tree was based on MUSCLE alignment and Kimura's two parameter model (K2P). We excluded all sequences with lengths of <400bp, sequences that contained stop codons in the reading frame, and records that were labeled as misidentifications or errors. Distinct BINs are highlighted in color and *COI* barcodes of army ant prey are underlined in black. Records in black letters were not given a BIN due to sequence lengths of <500bp. Scale bar represents p-distances. Tips of the tree include the following information: Species name, process ID, sample ID, country of collection, and BIN. Besides the 682 prey barcodes used in the main part of the article, we included in the tree 89 additional ant prey barcodes from a preliminary study about army ant diets (sample ID starts with "cvb..."). BOLD IDs and GenBank accession numbers for these records are given in Supplemental File 1.

BOLD TaxonID Tree

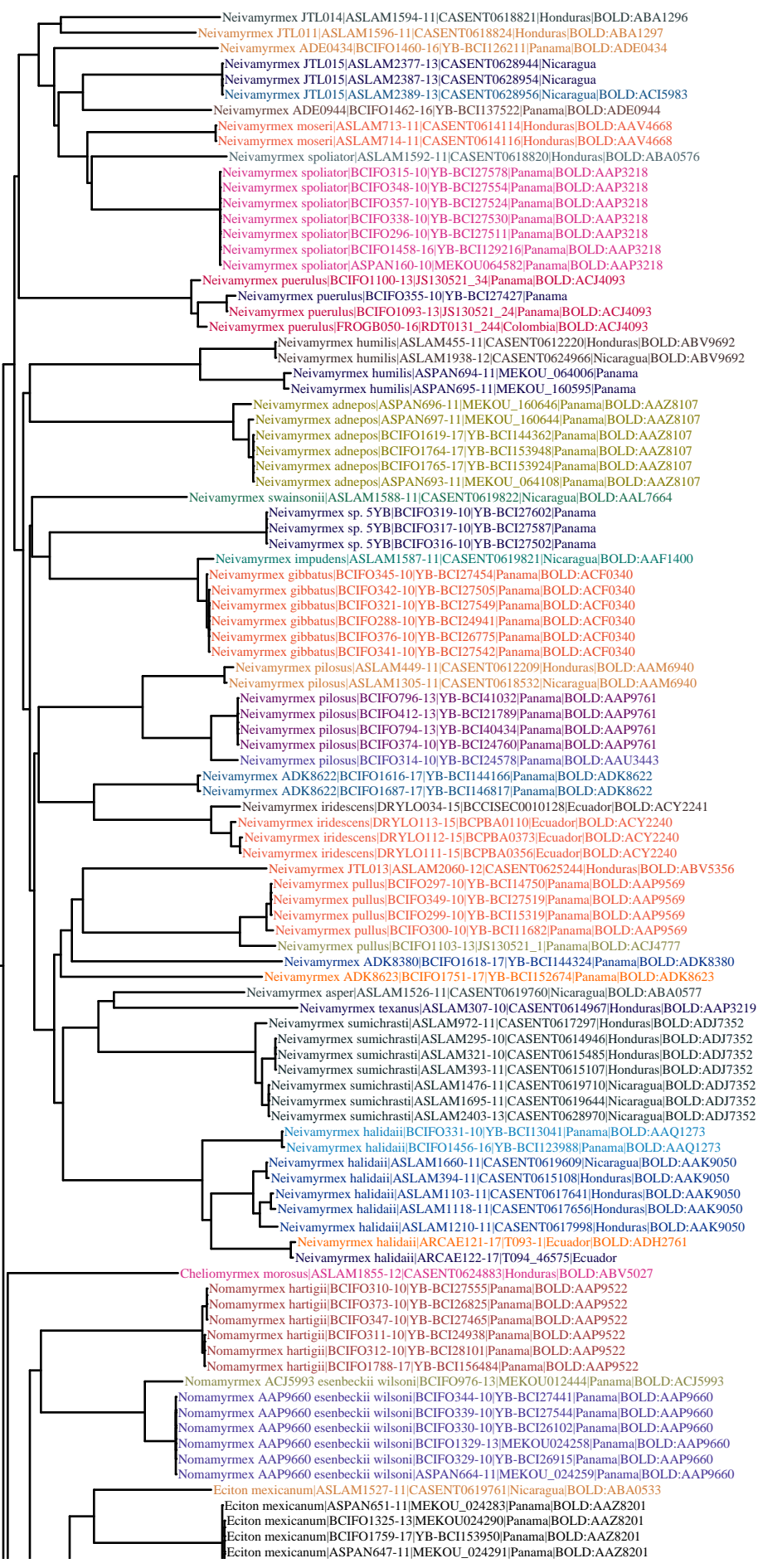
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Distance Model : Kimura 2 Parameter
Marker : COI-5P
Colourization : Barcode Cluster (BIN)

Label : Sample ID
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Label : Country
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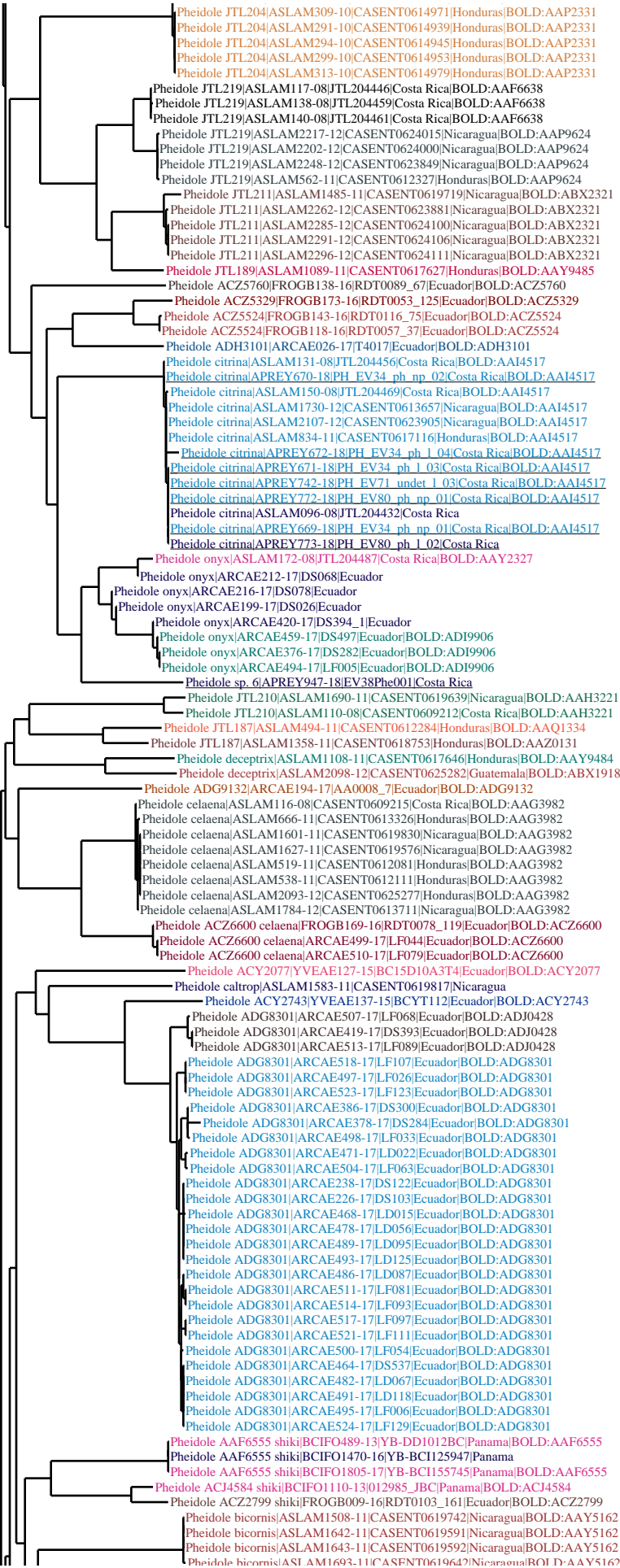
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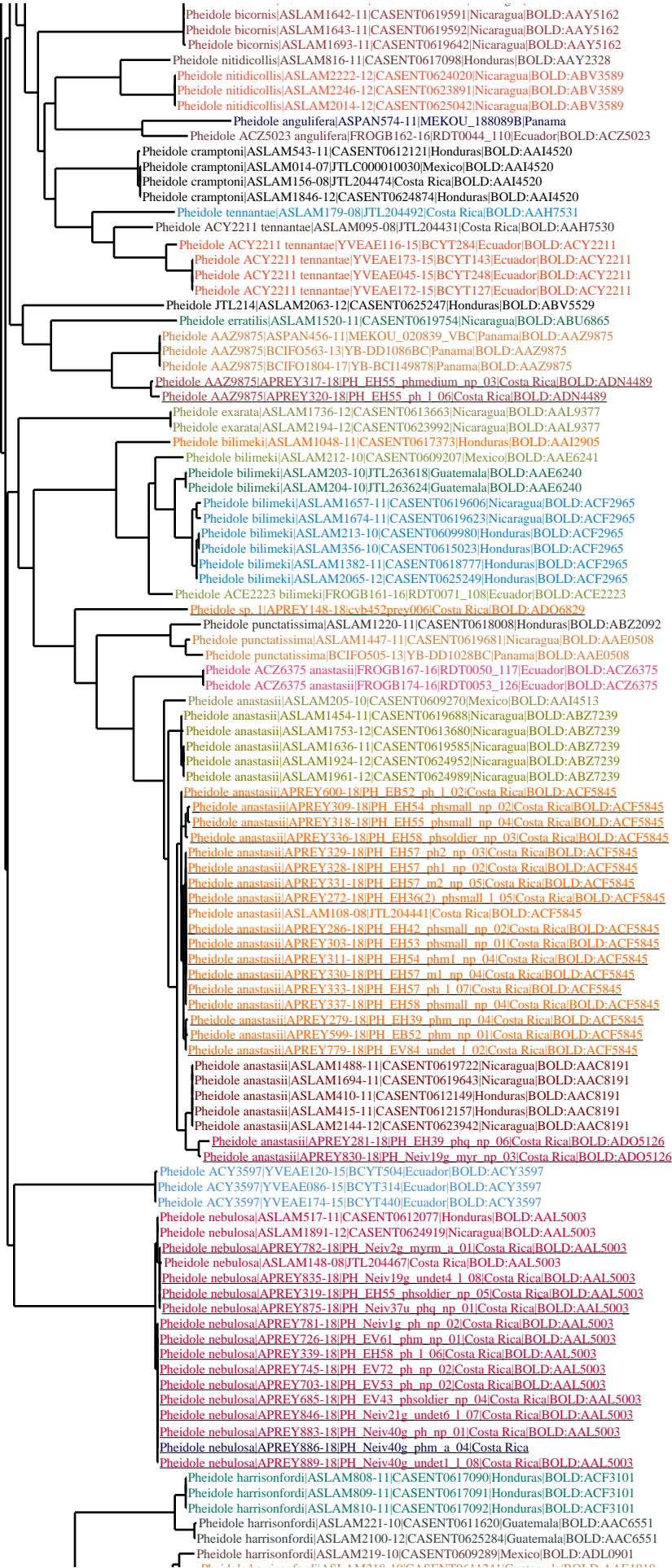
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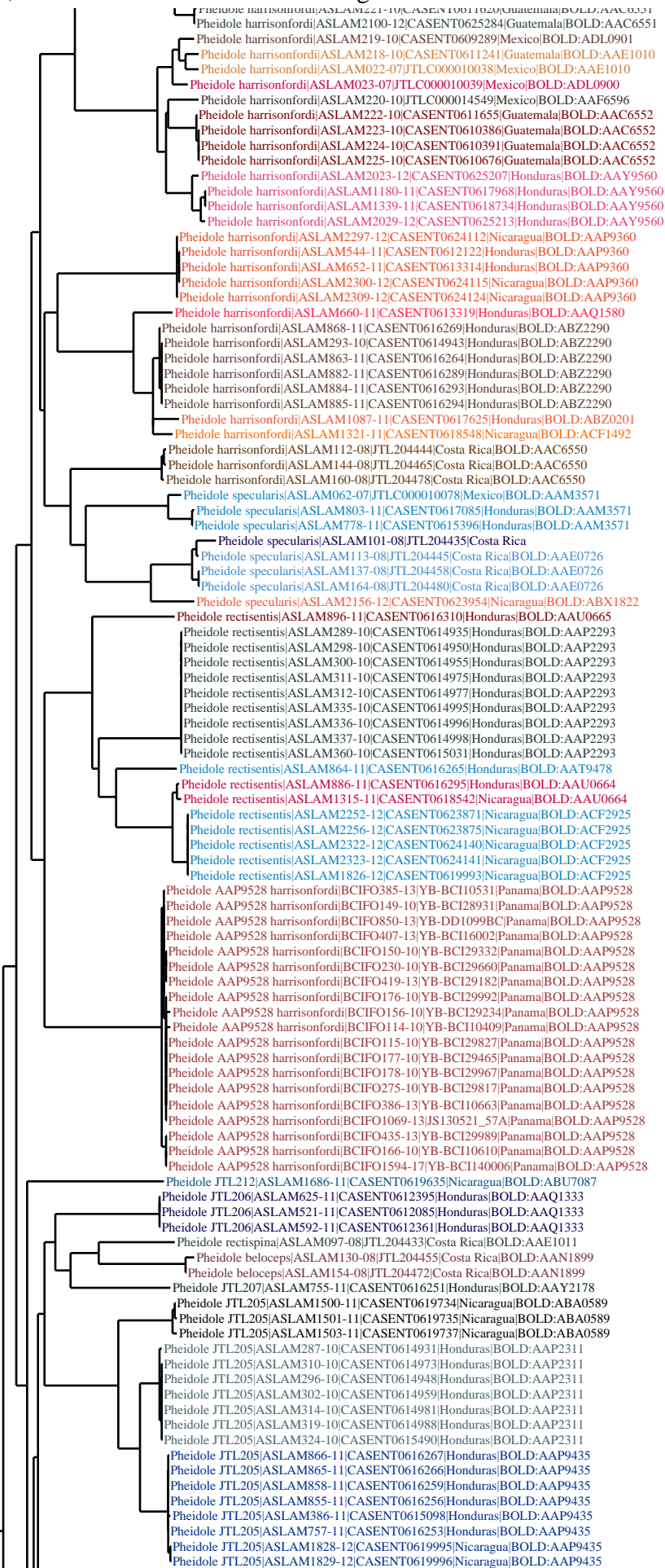
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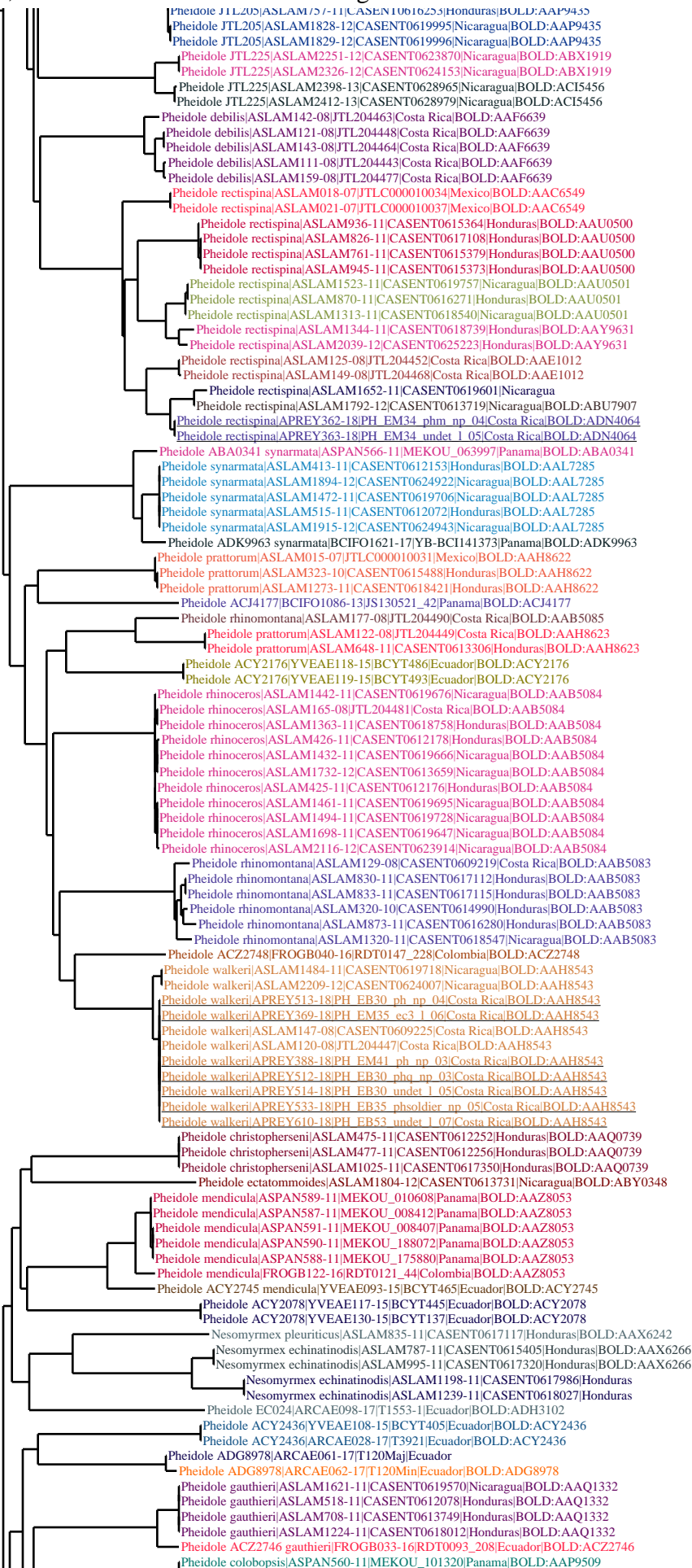


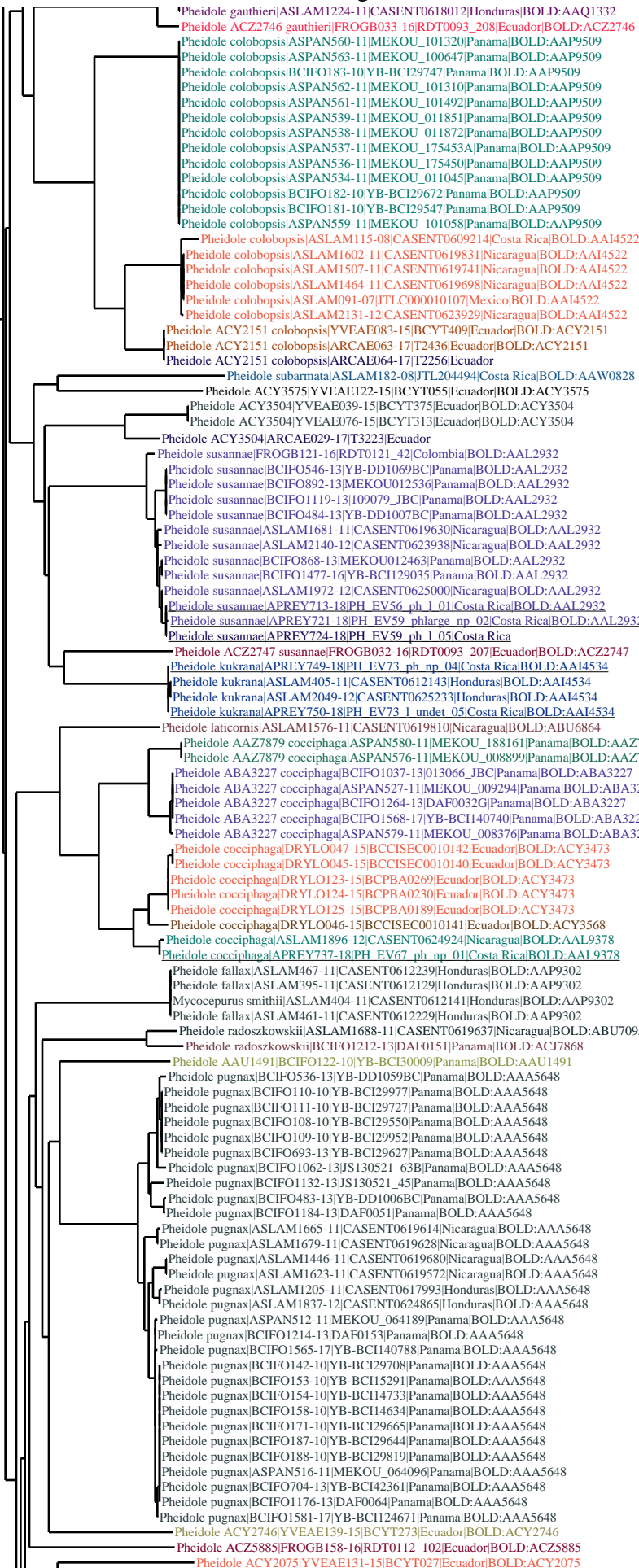
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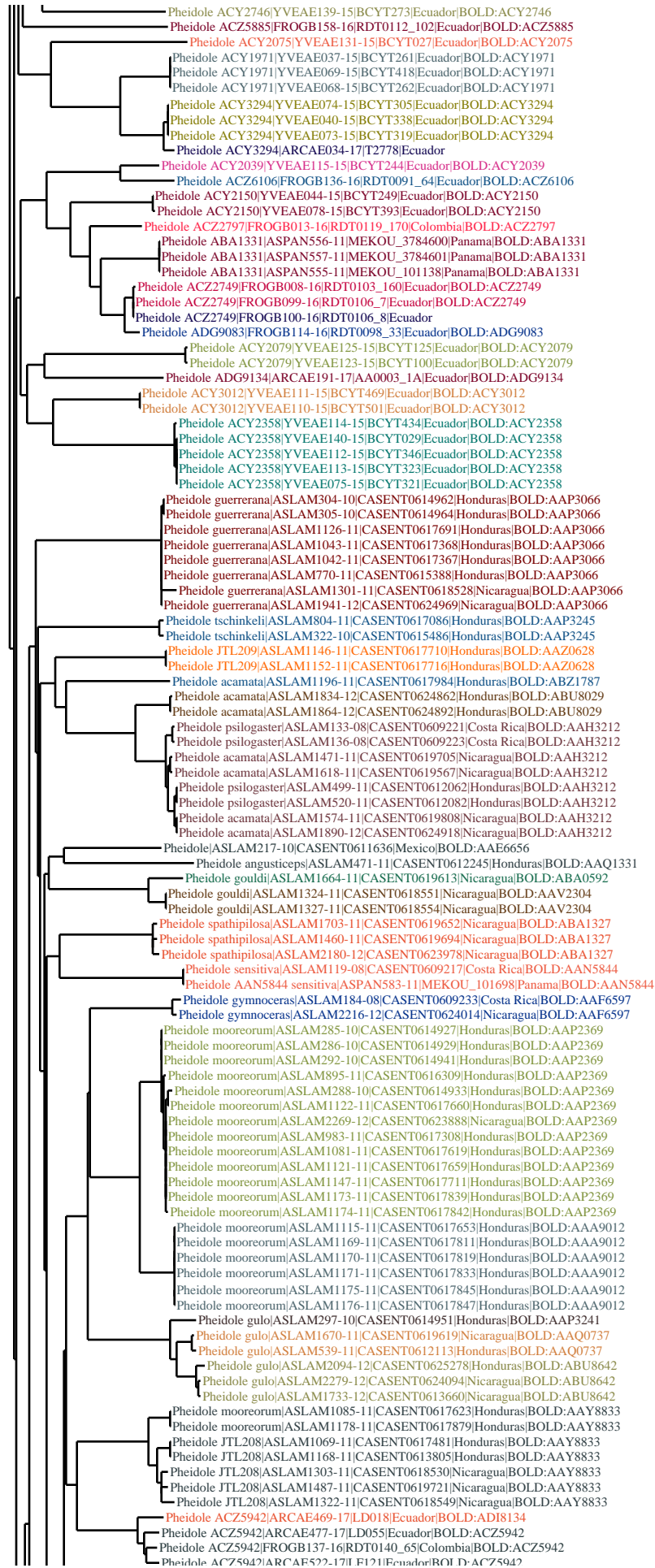


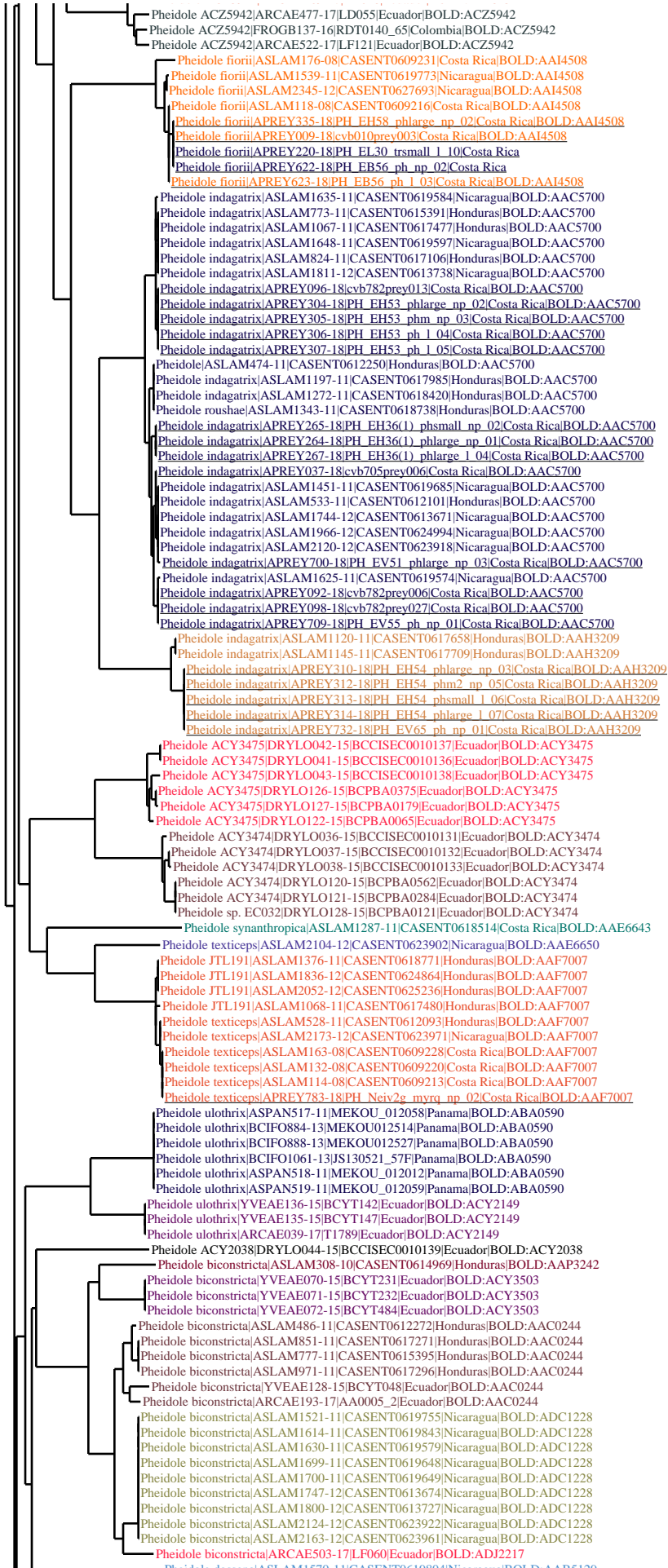


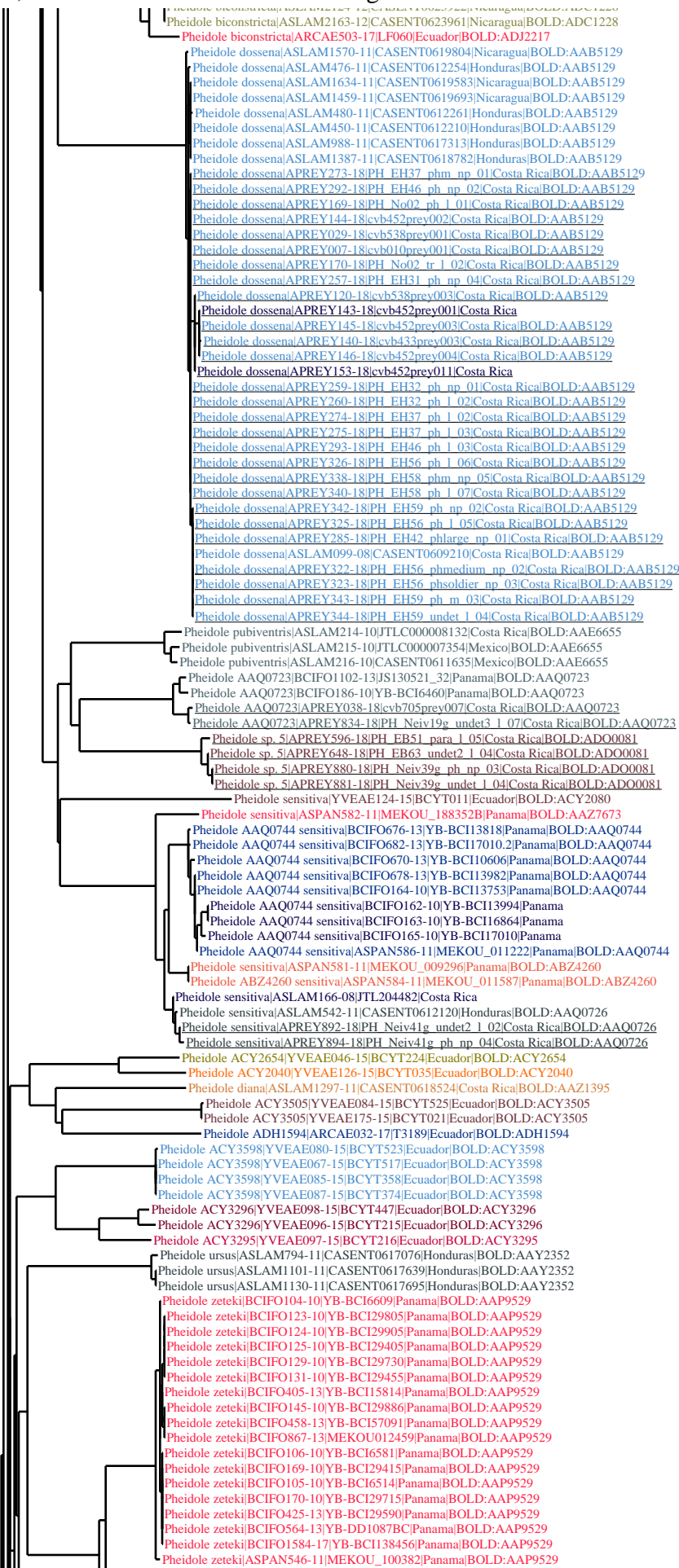


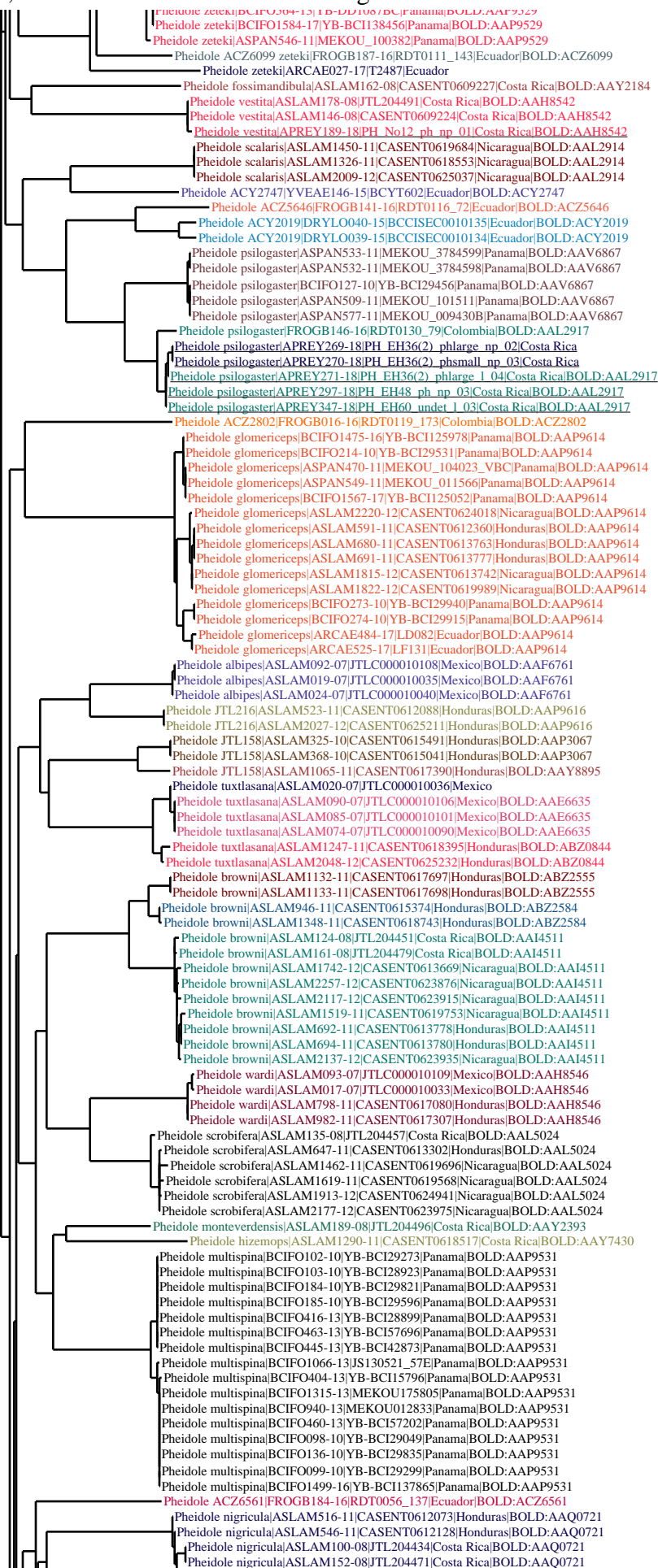


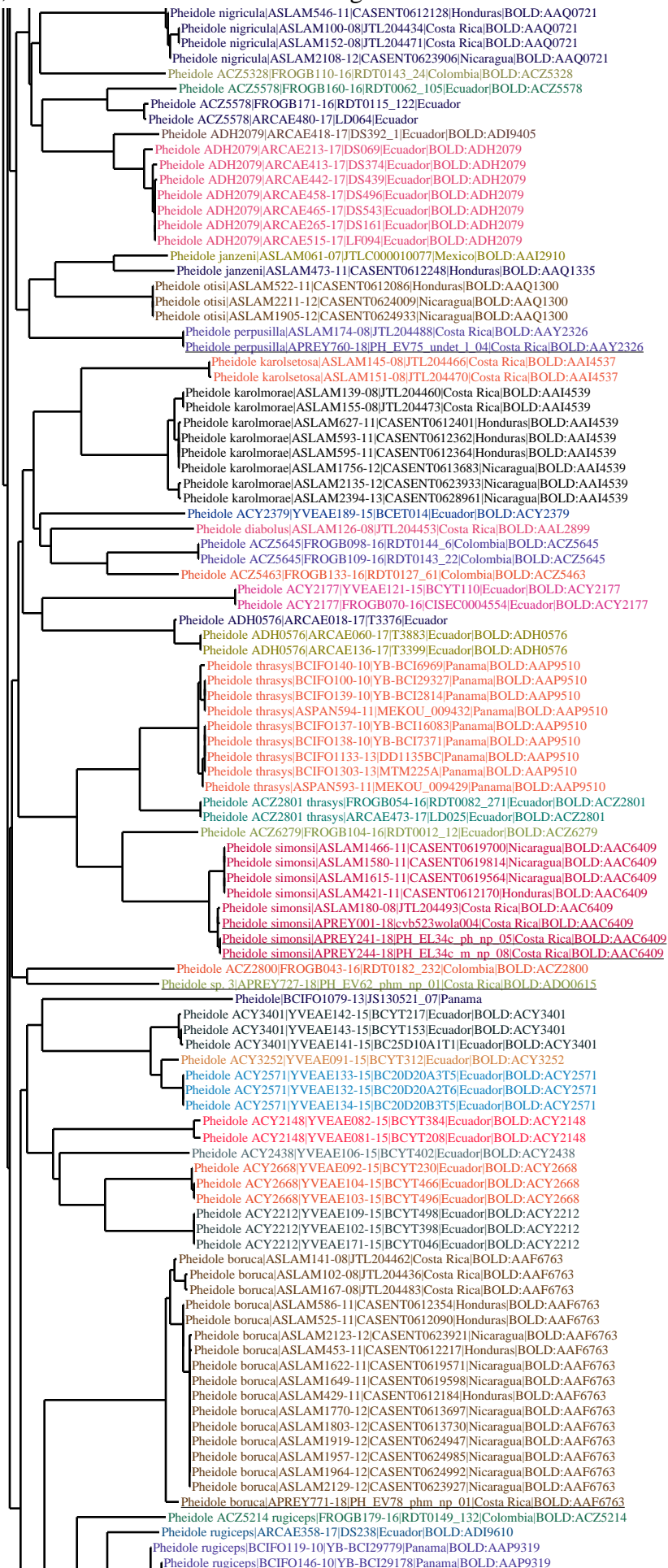




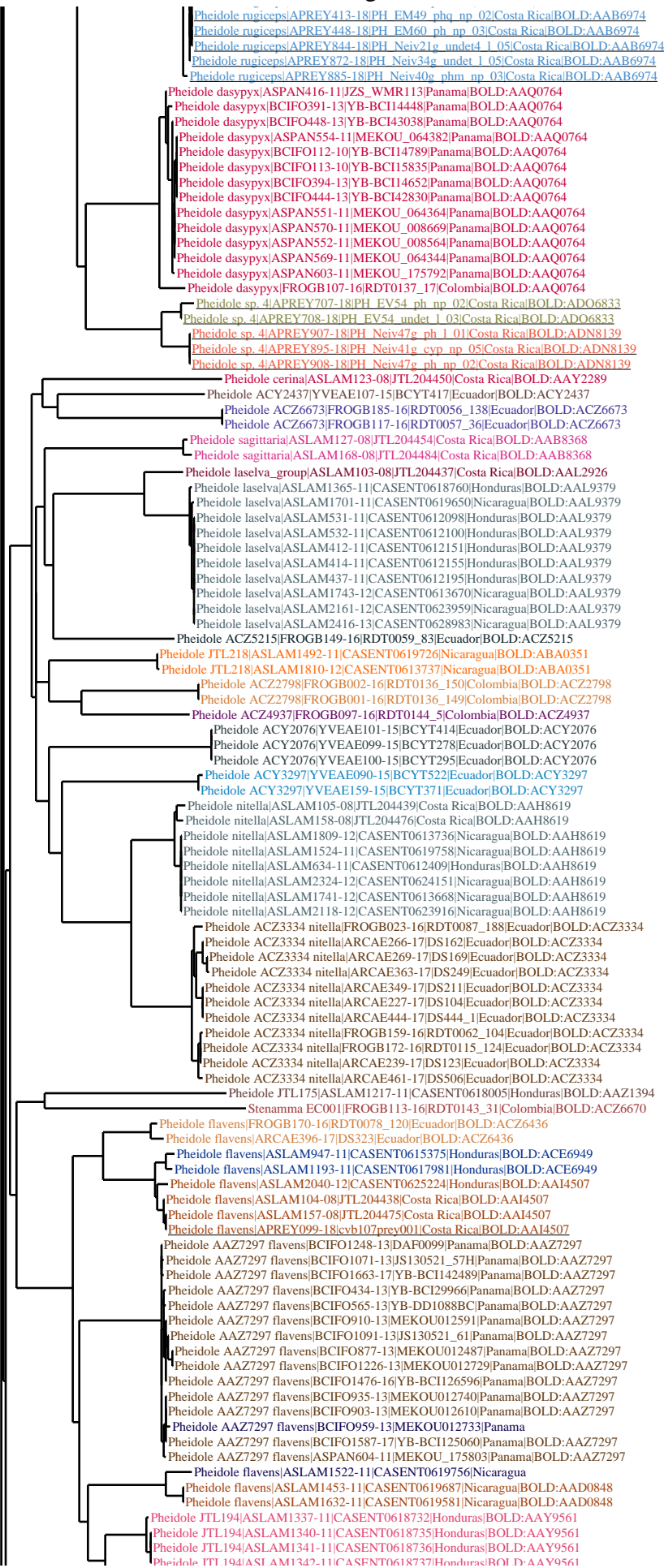


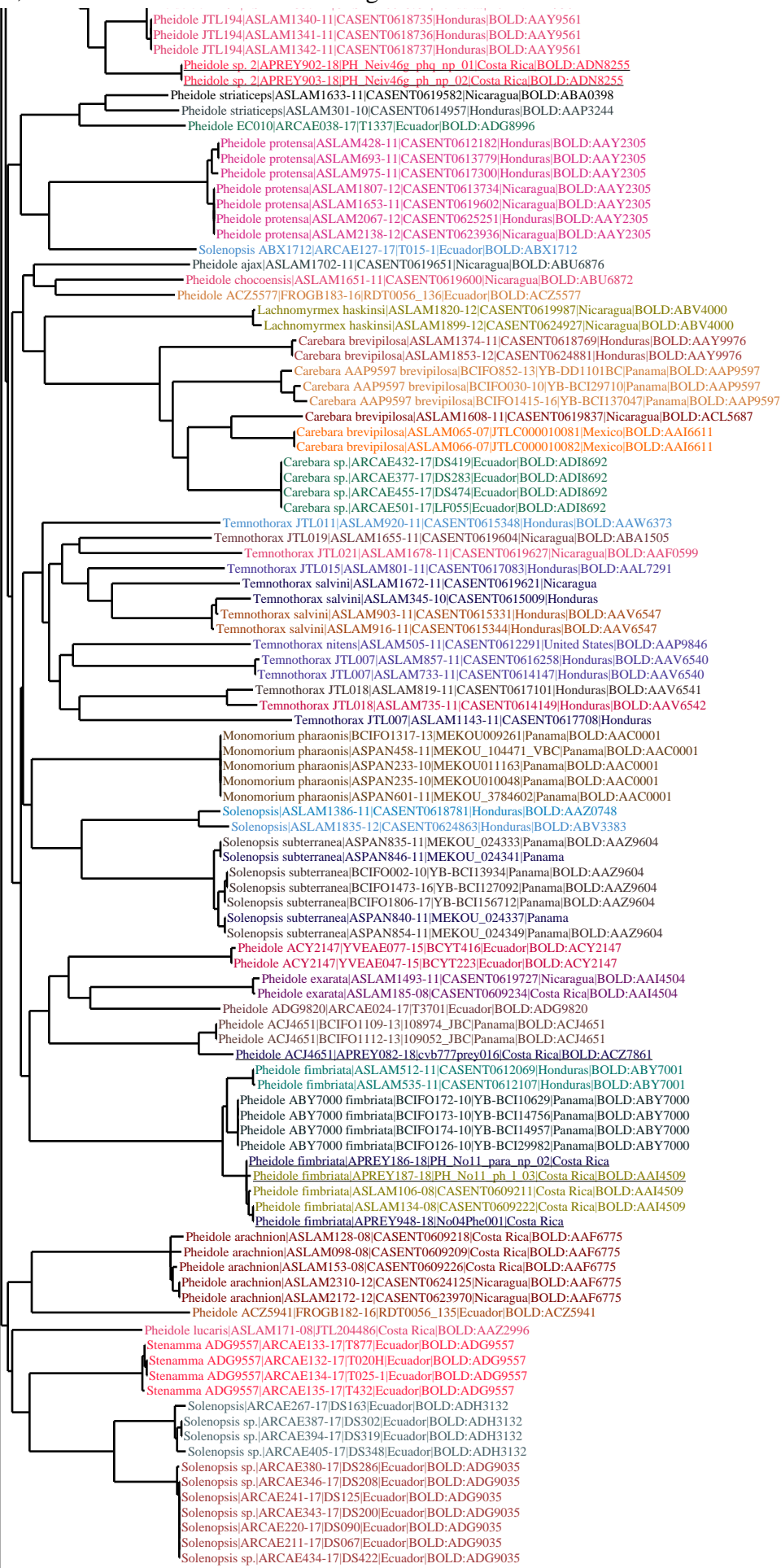


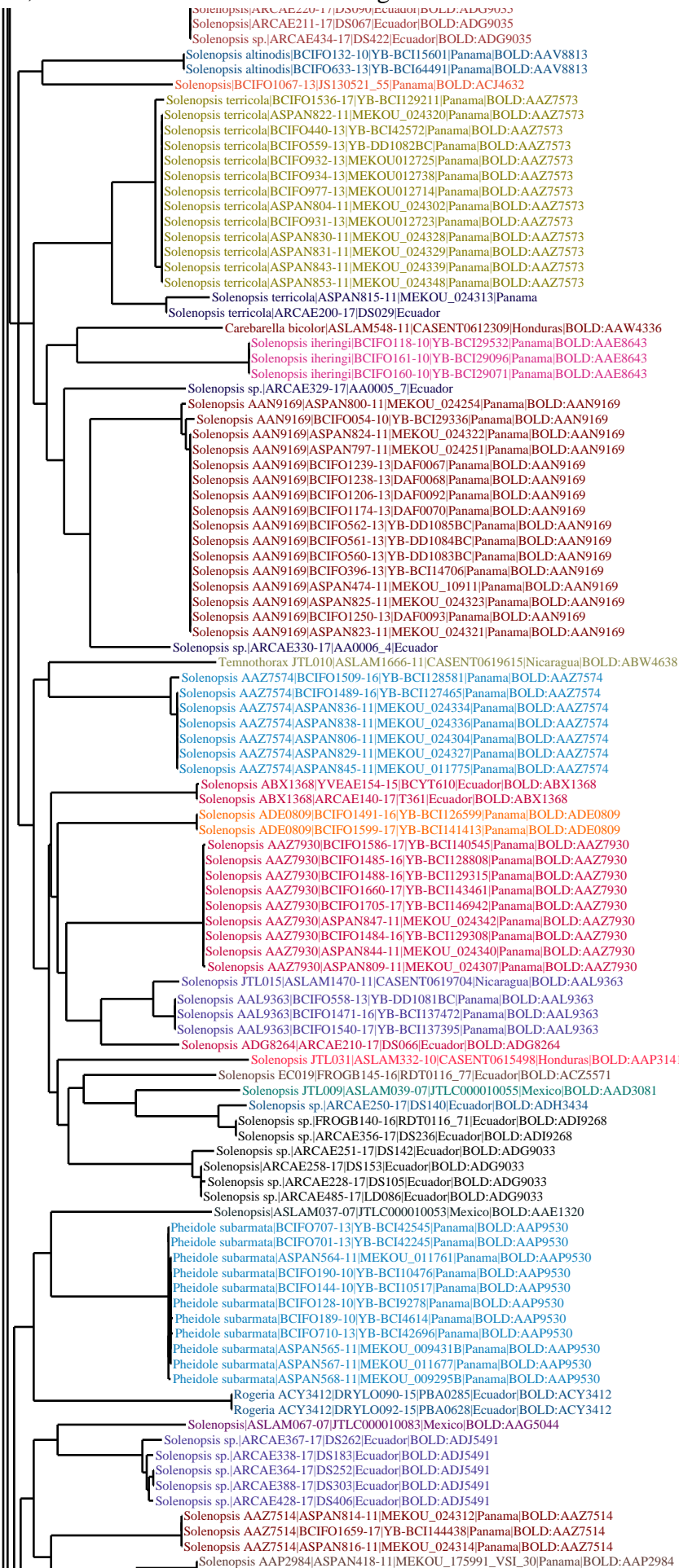


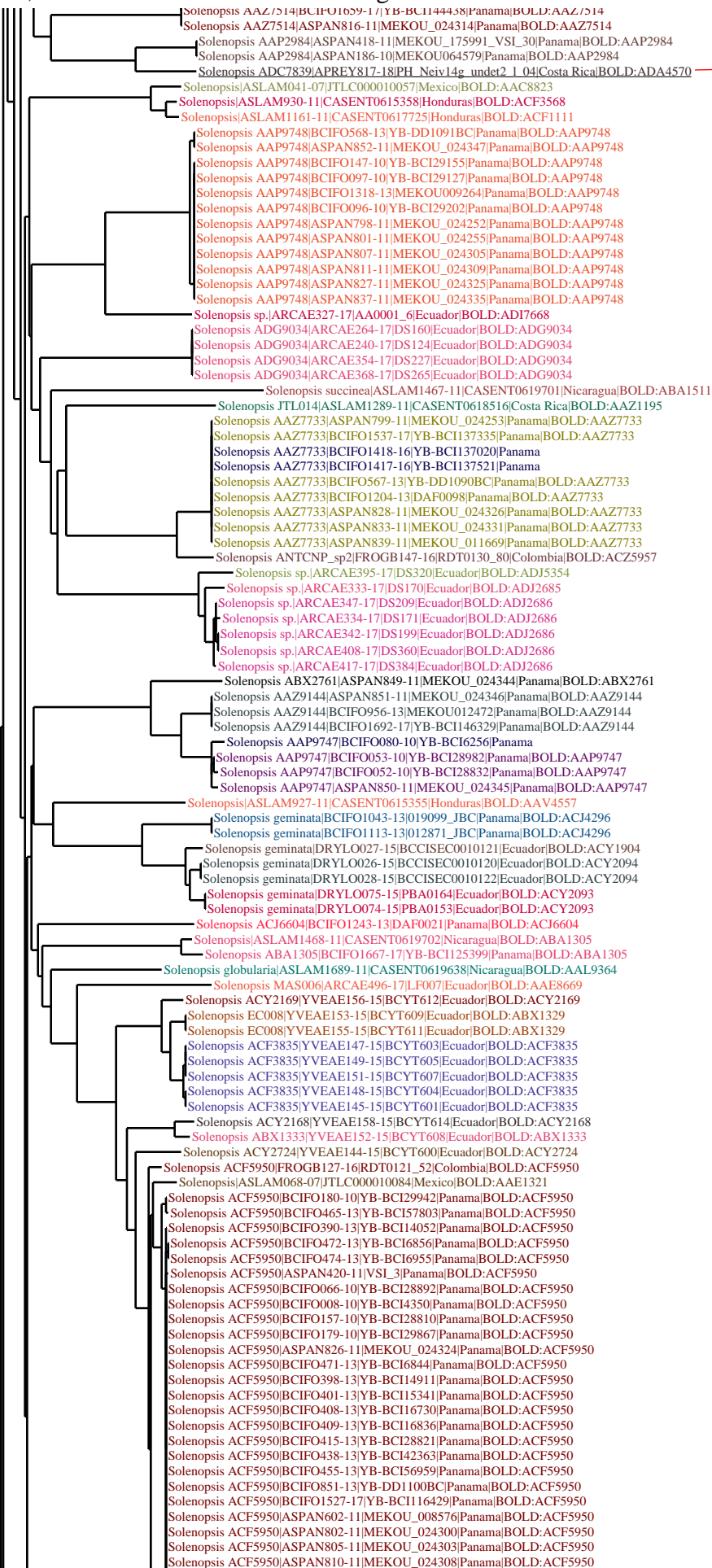


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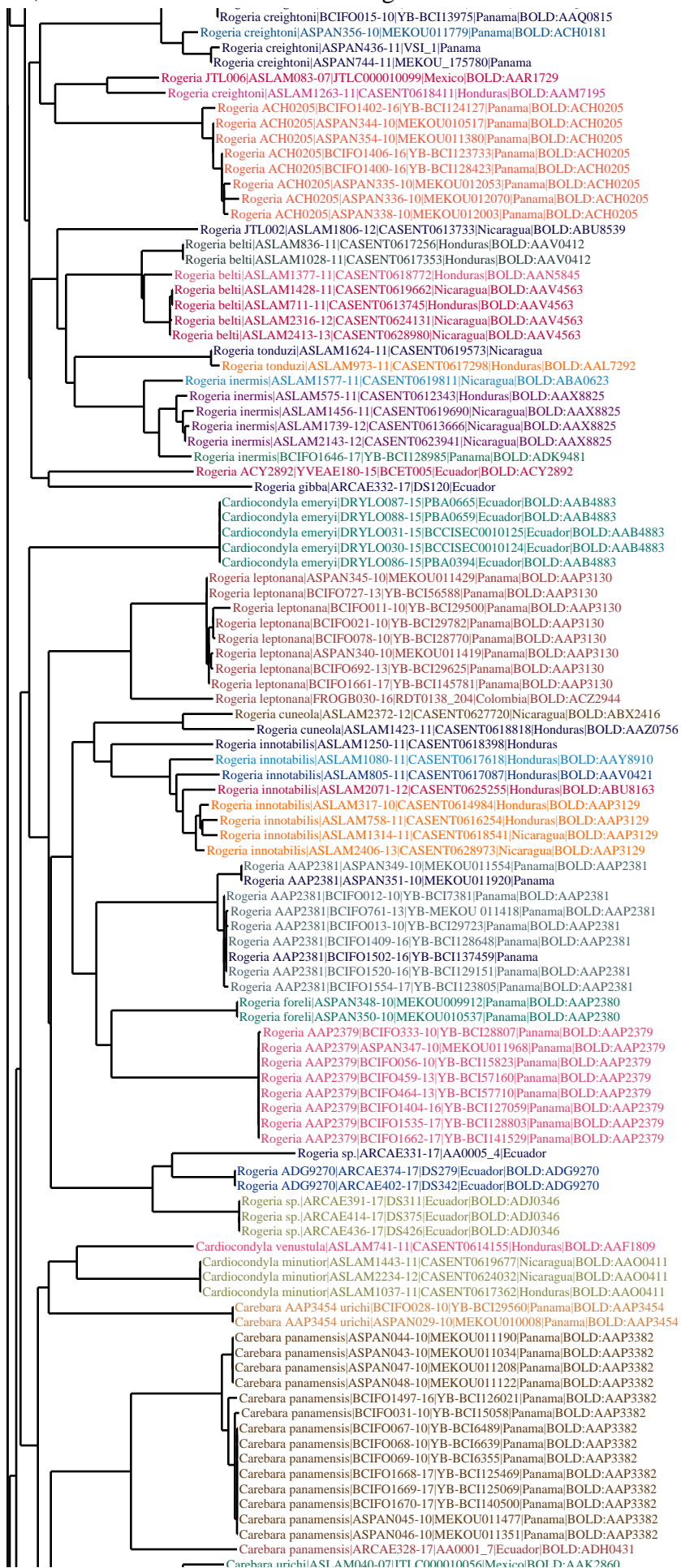


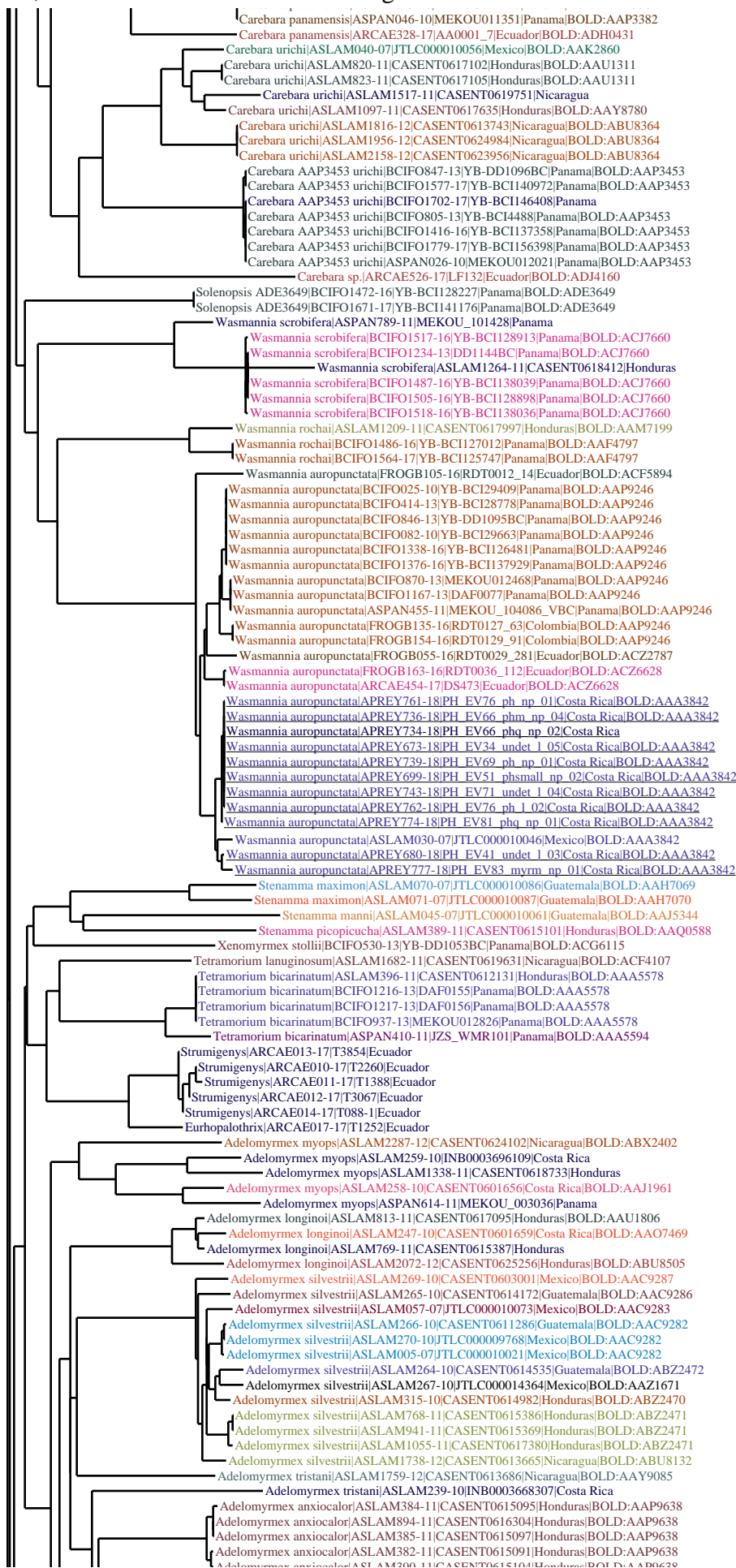


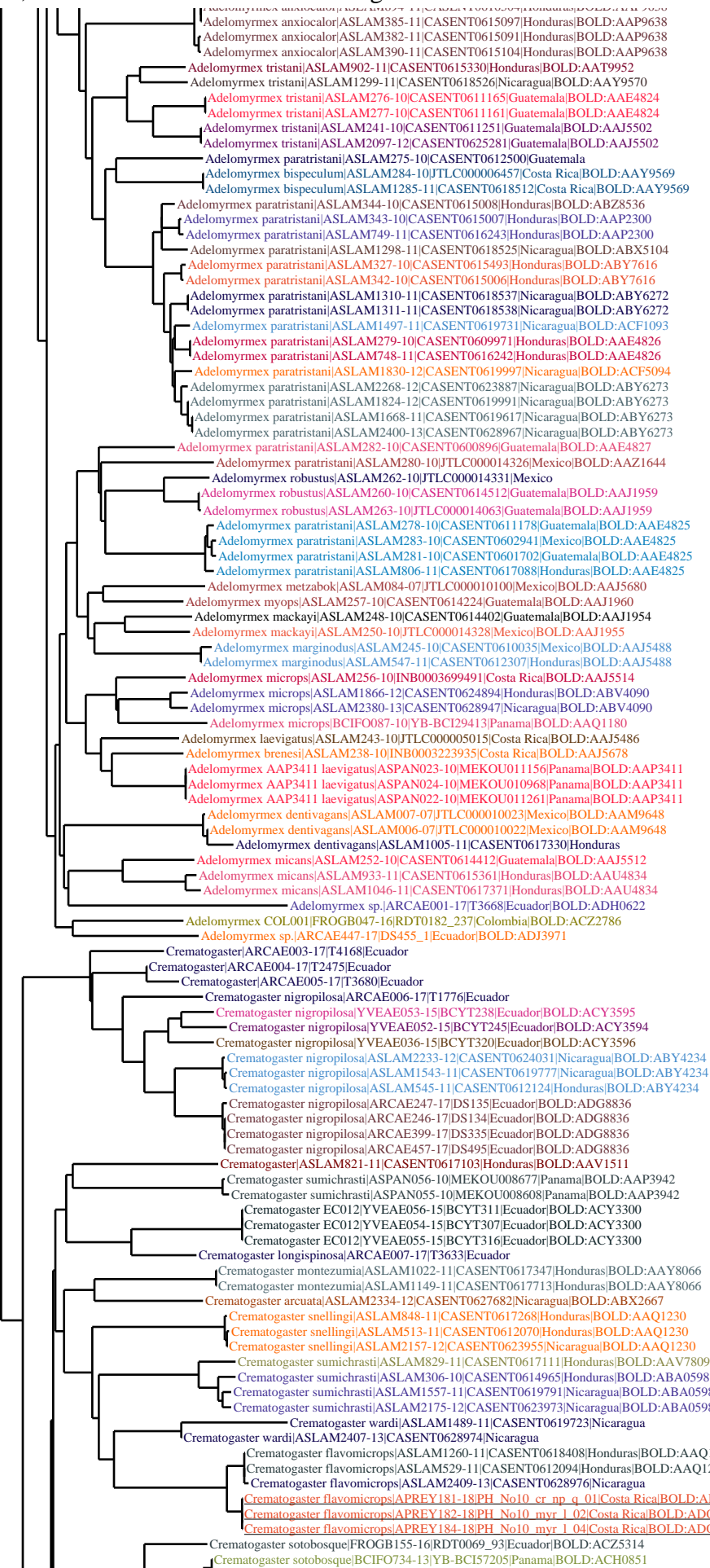


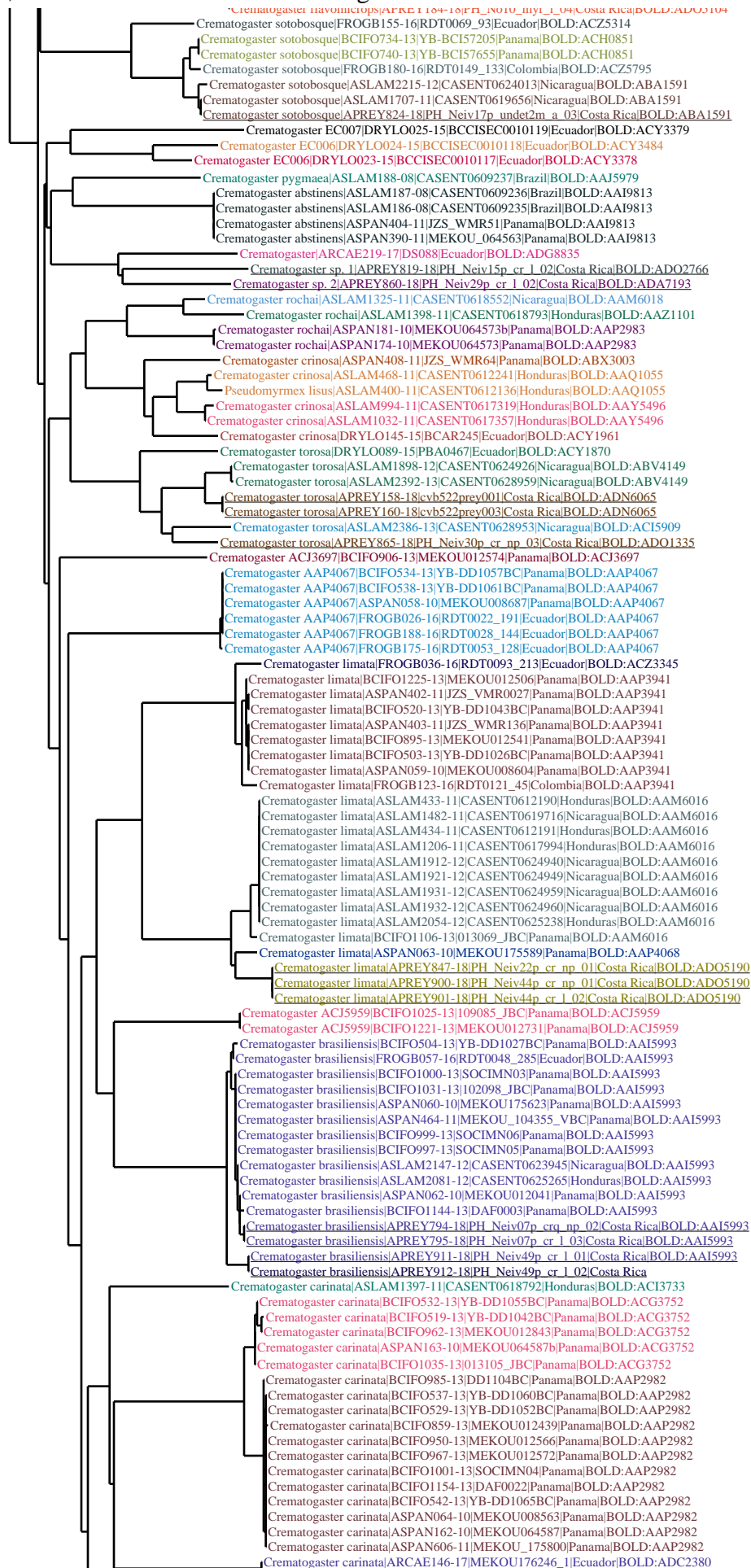
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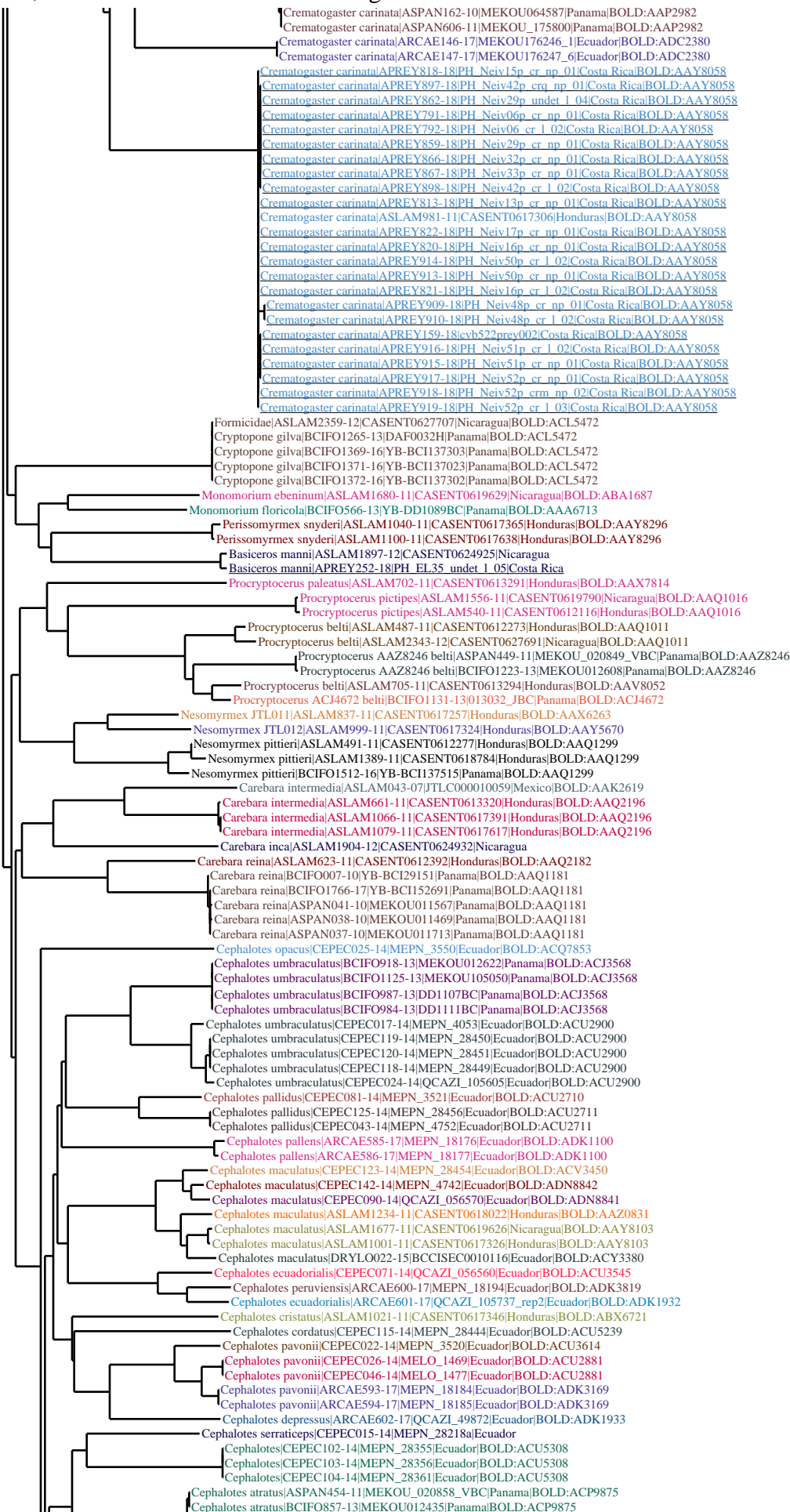
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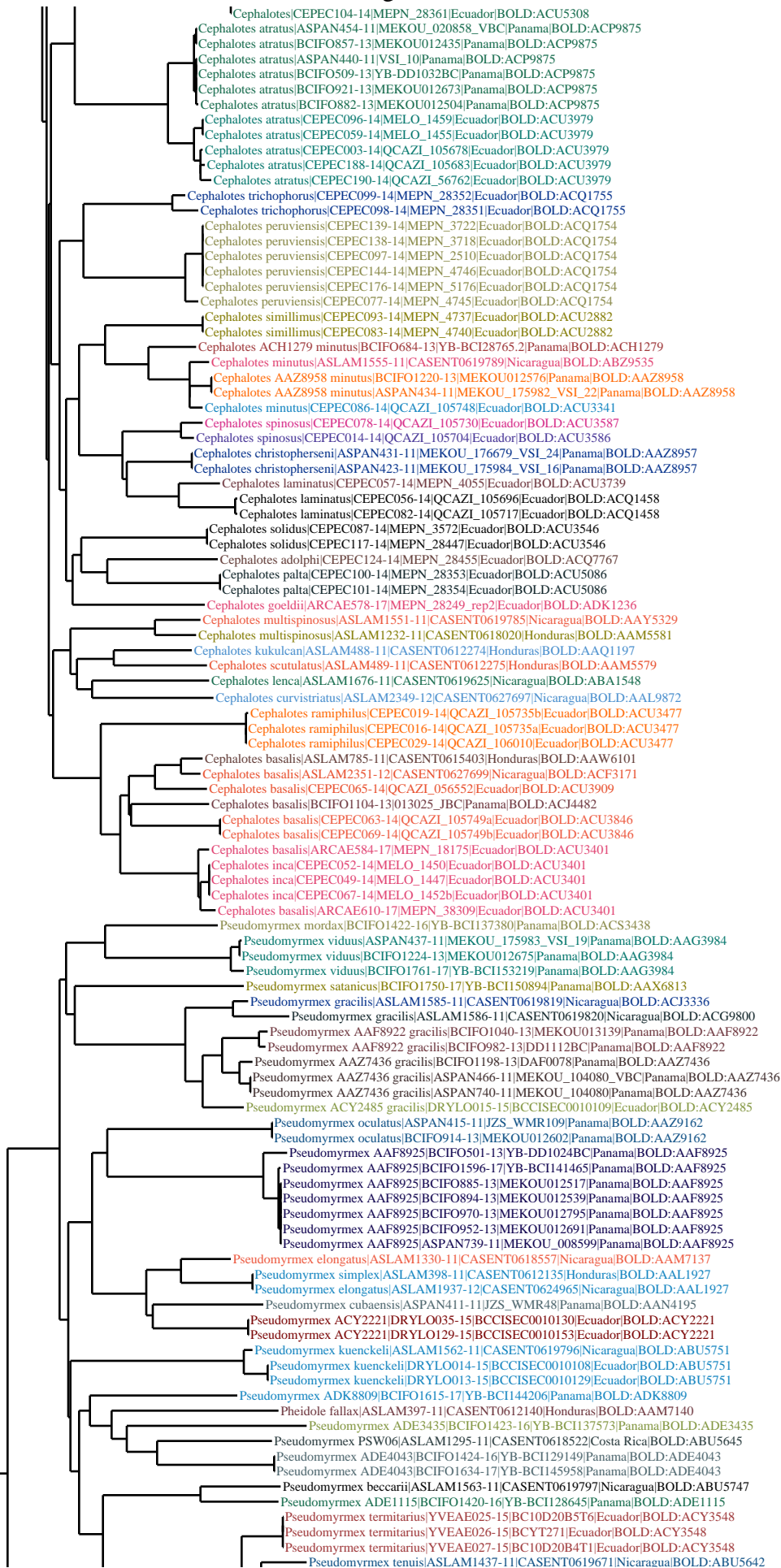


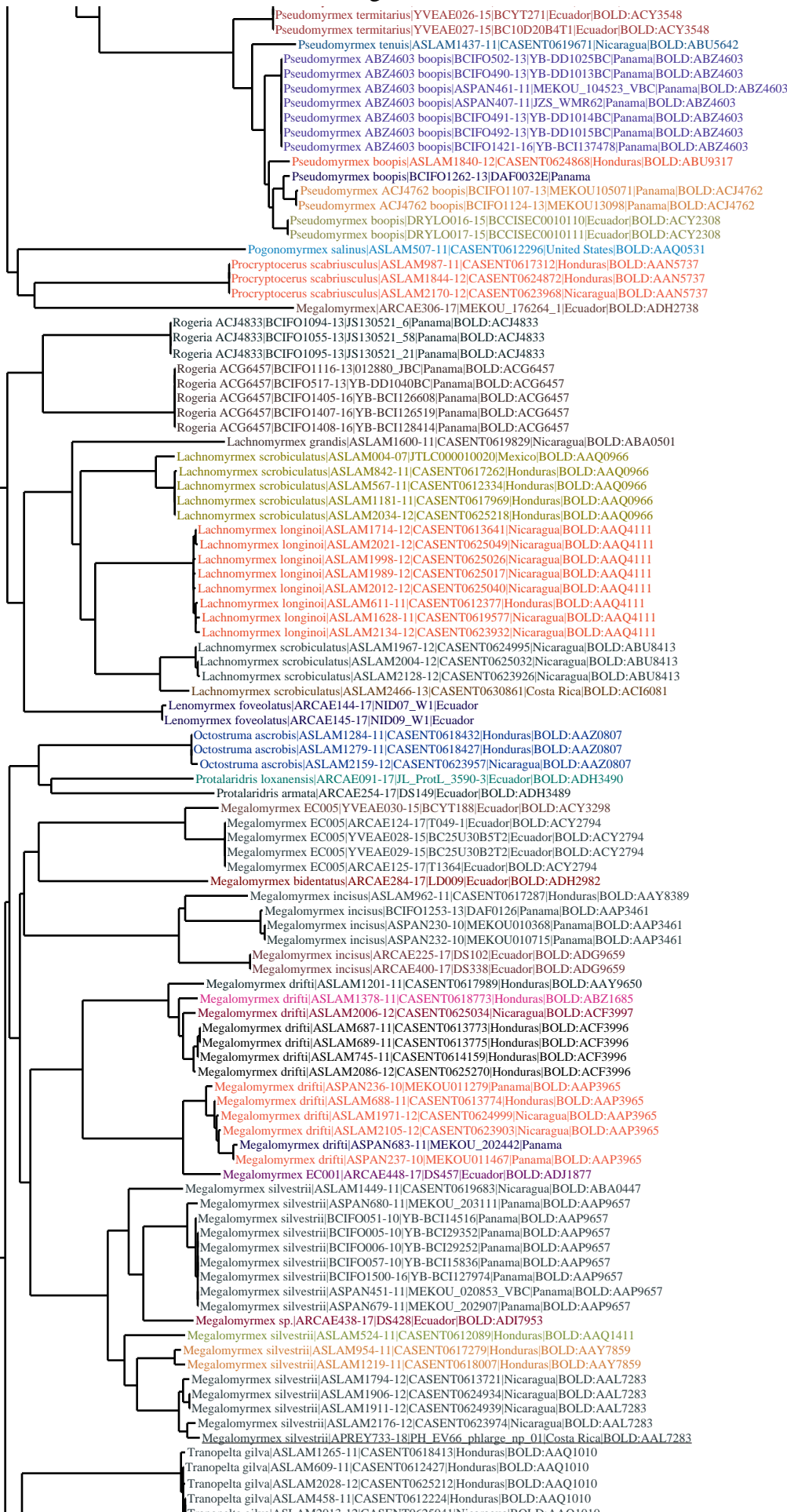


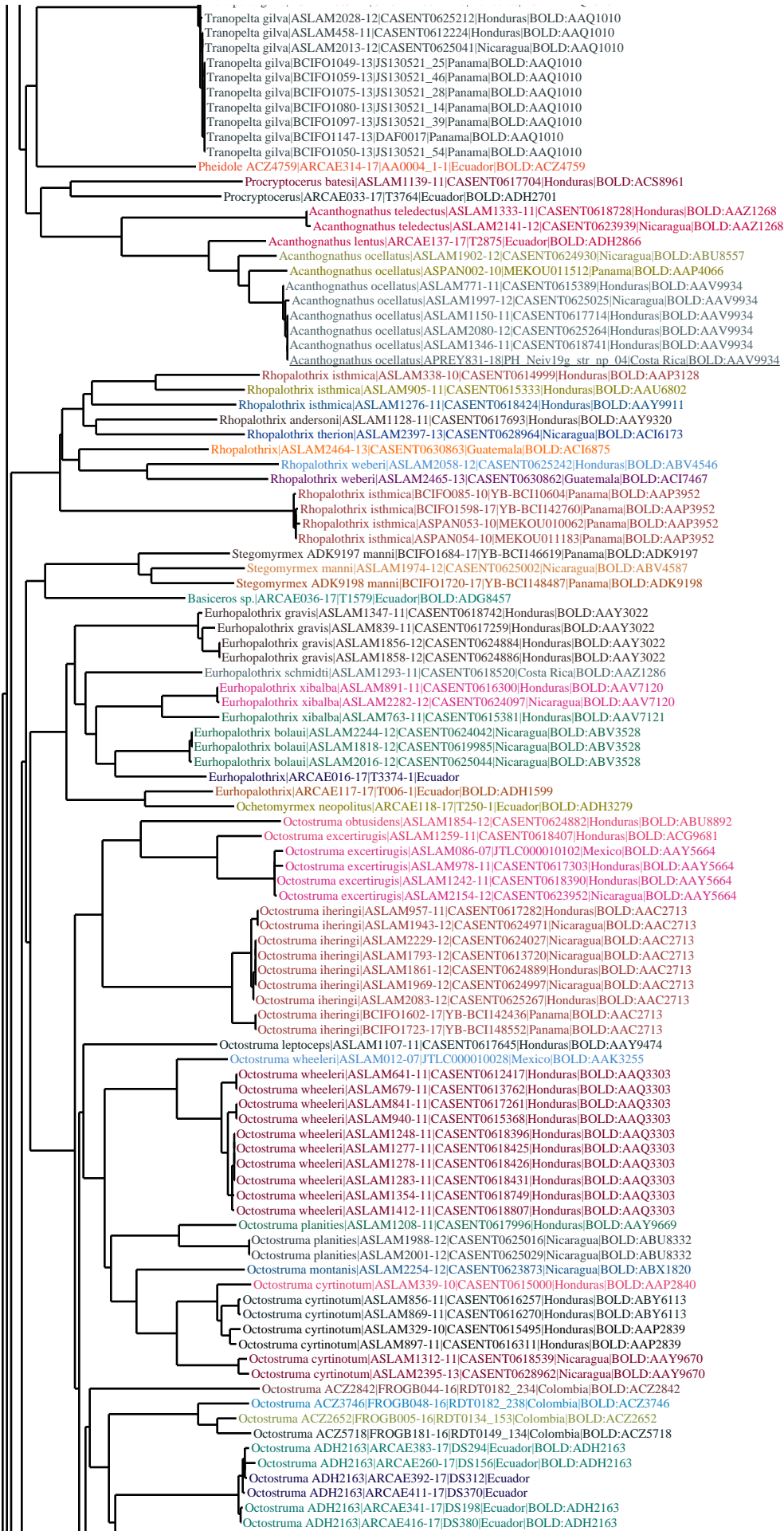


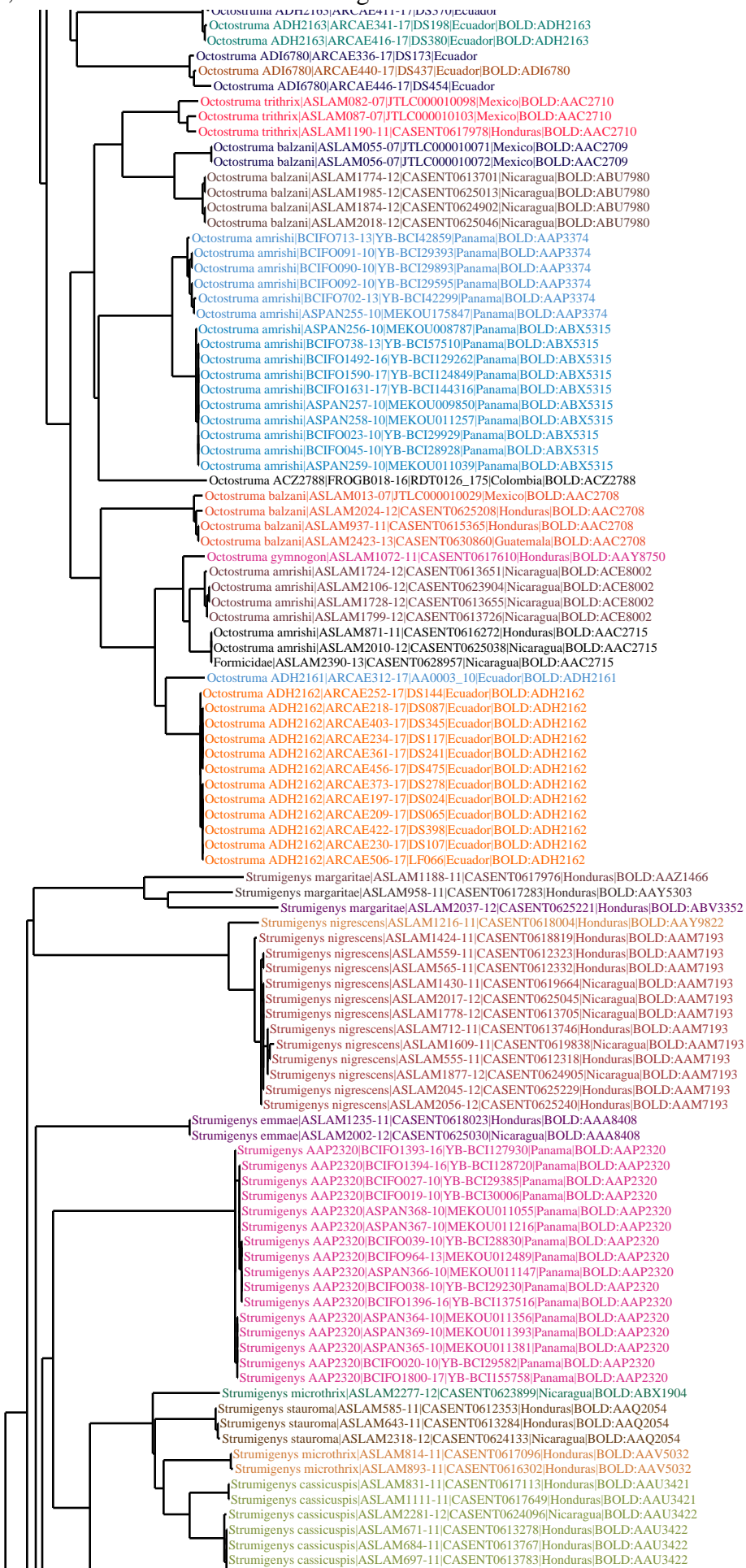




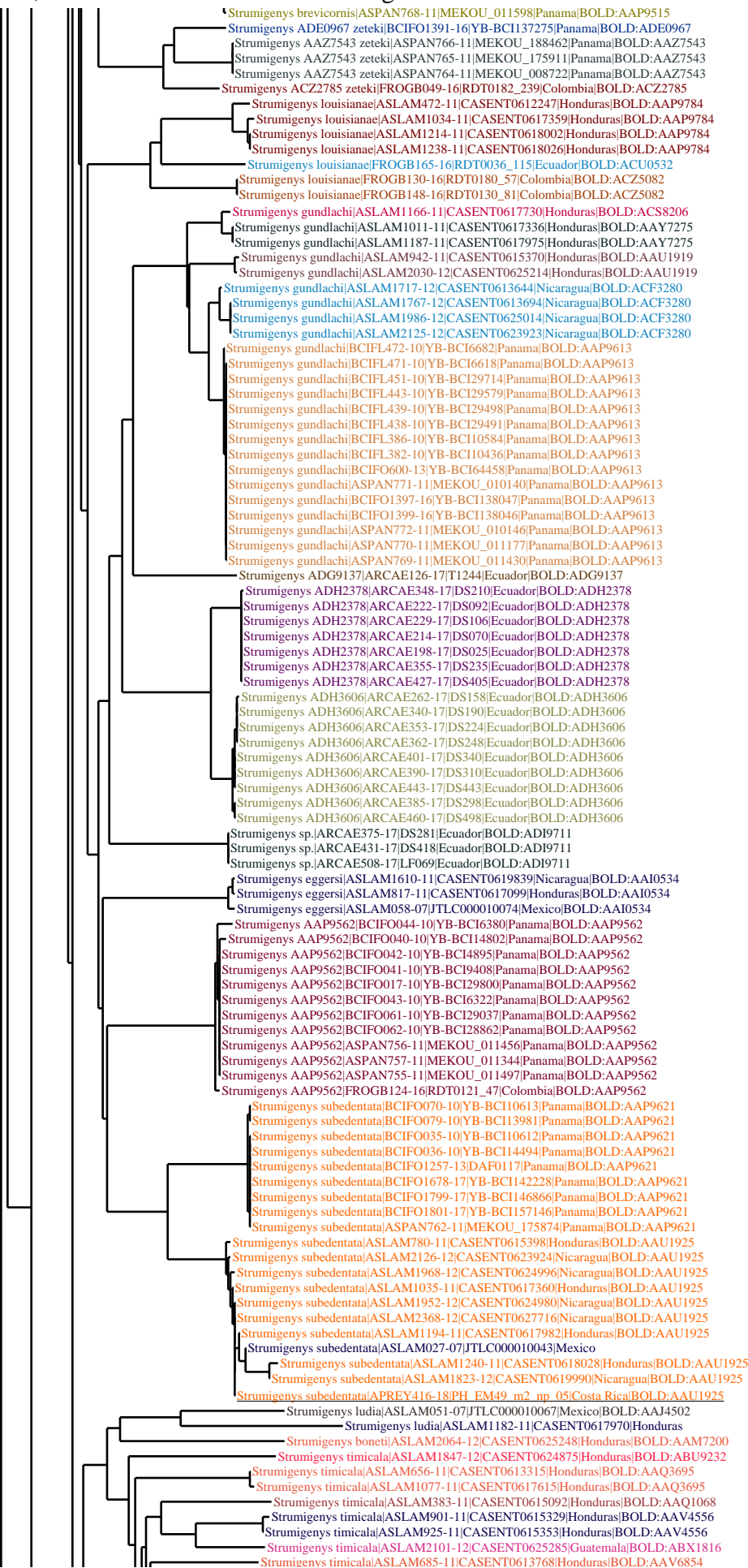


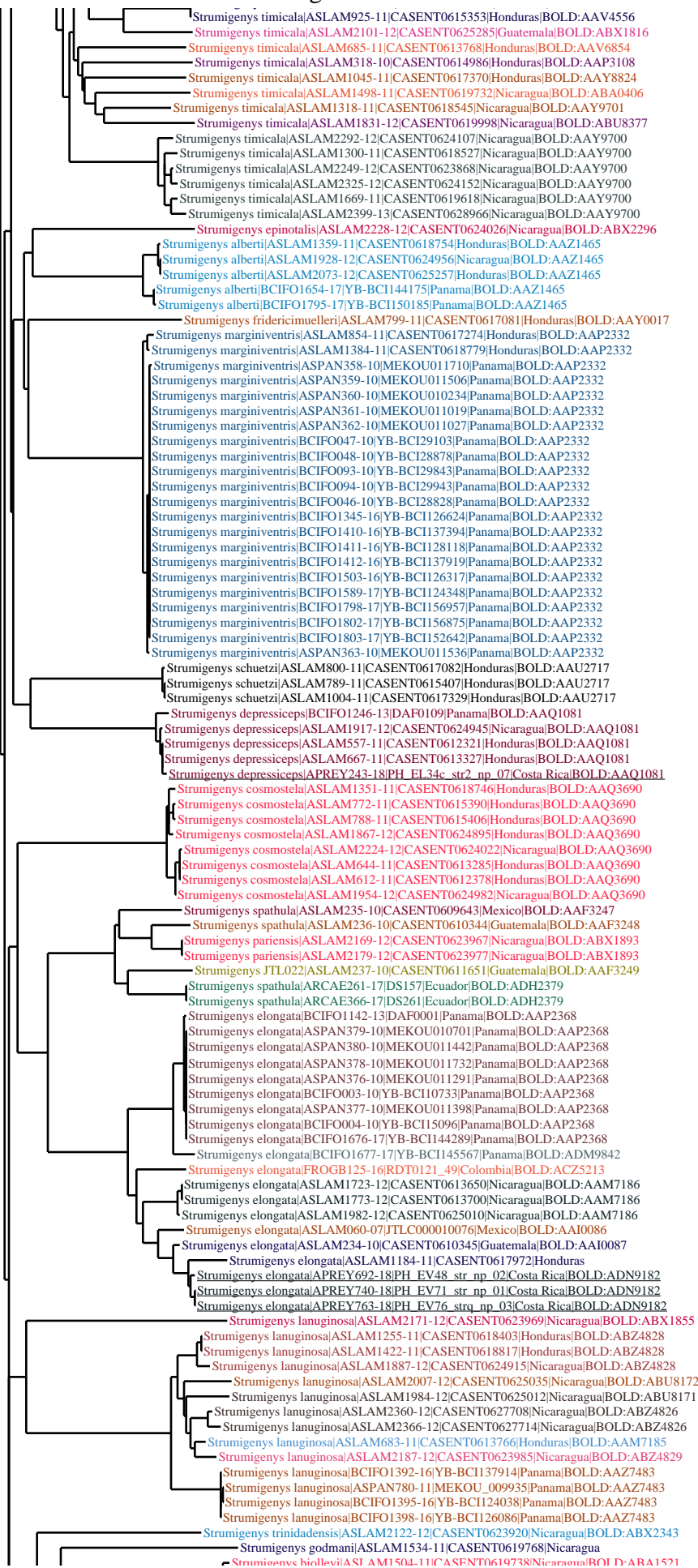


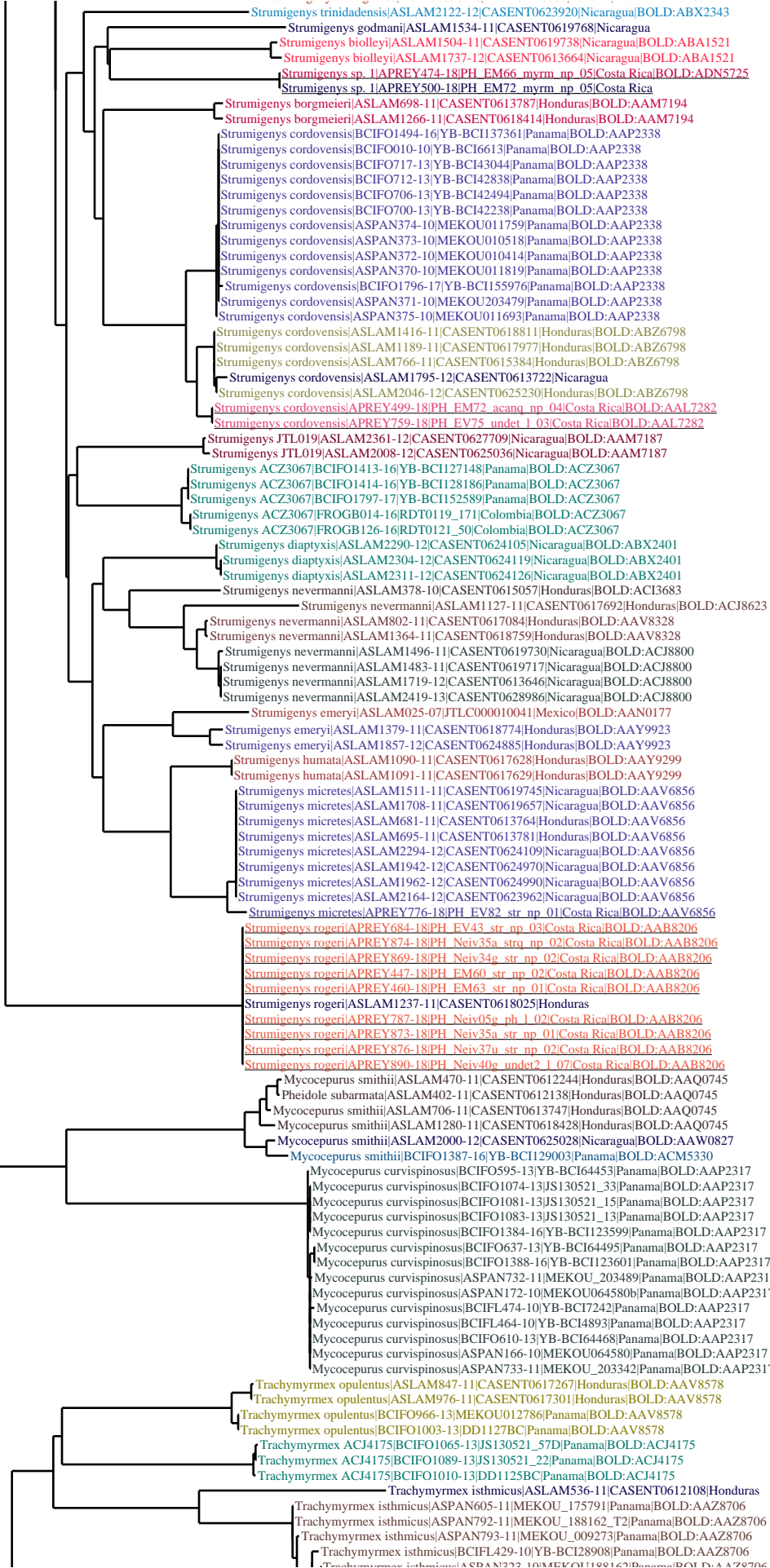


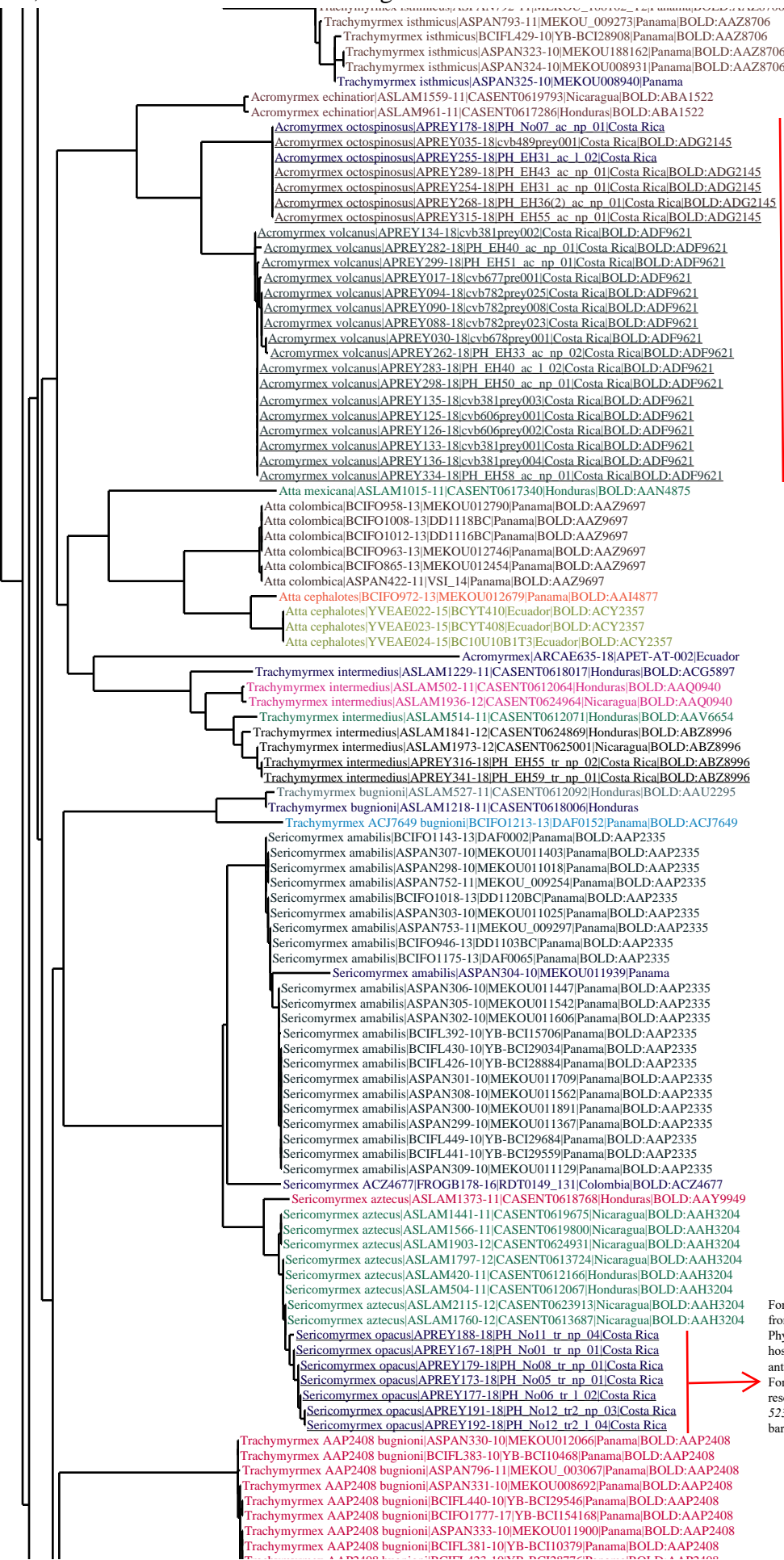


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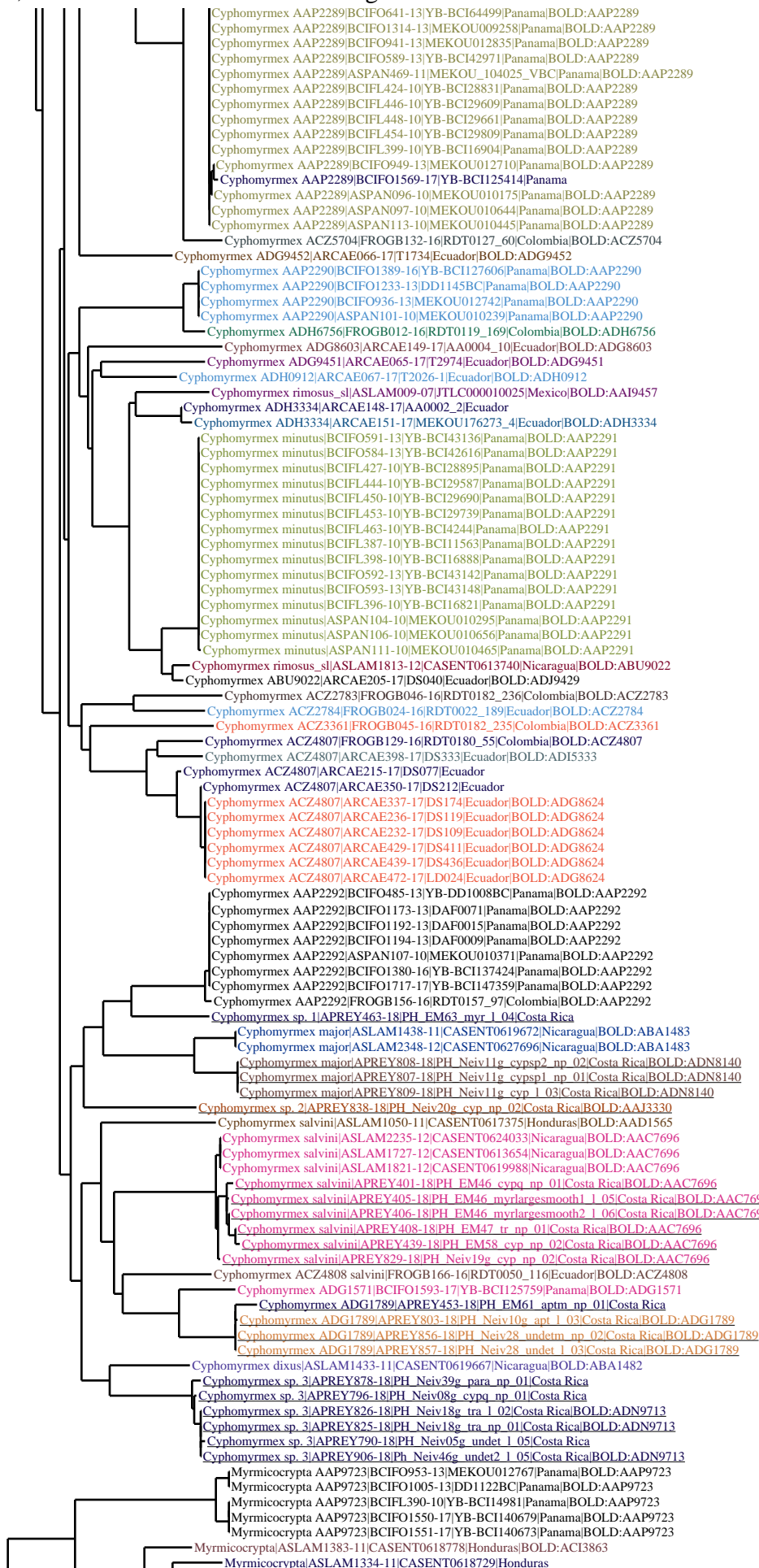


Acromyrmex sequences were matched to a yet unpublished COI dataset of one of the authors (DD) - reference records are uploaded to BOLD but show up as private

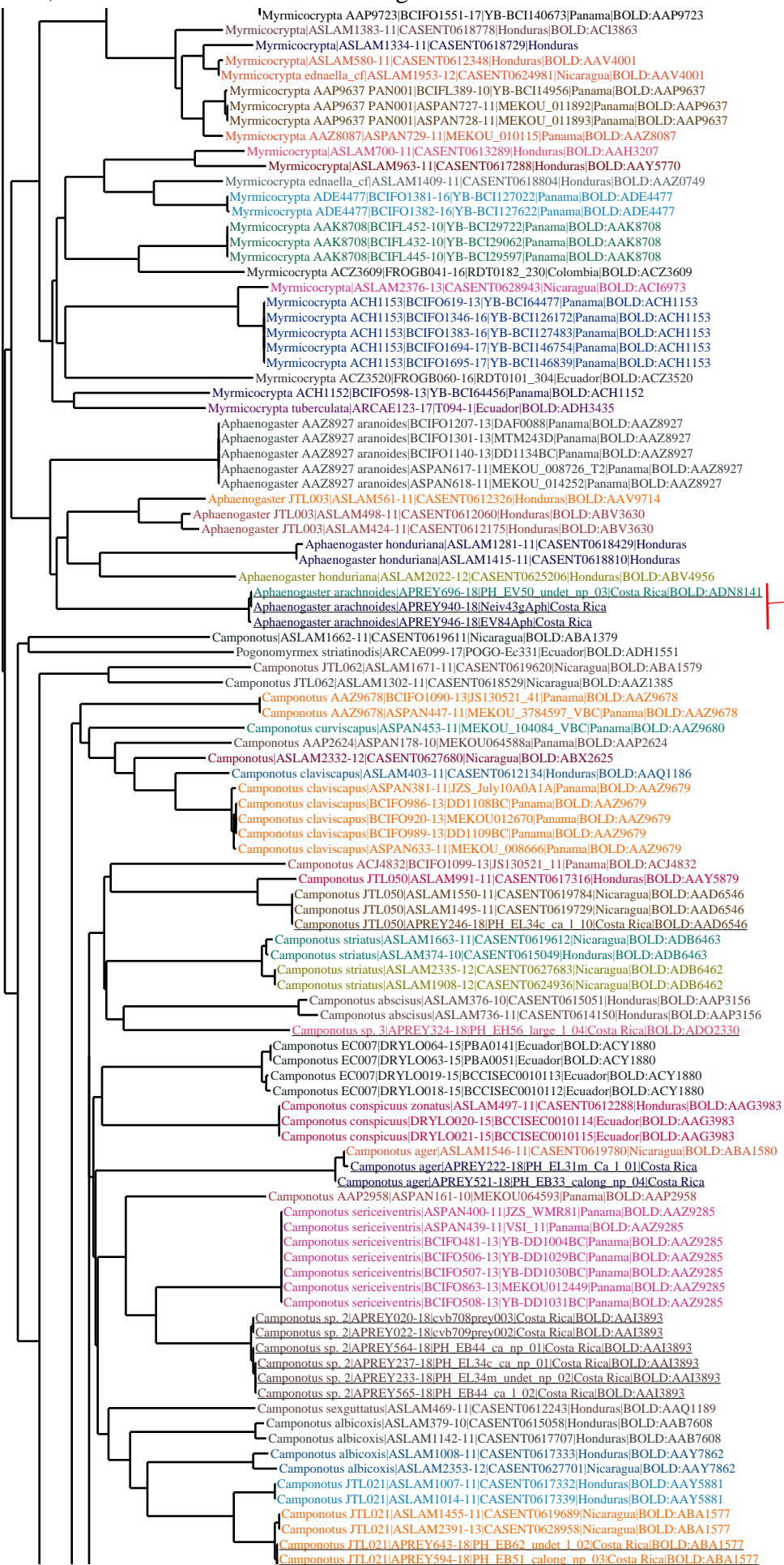
For these records, we used COI reference data from Ješovnik et al. (2017): Phylogenomic species delimitation and host-symbiont coevolution in the fungus-farming ant genus *Sericomyrmex* Mayr (Hymenoptera: Formicidae): ultraconserved elements (UCEs) resolve a recent radiation. *Systemat Entomol.* 42, 523–542. GenBank accession number of reference barcode: KY202351

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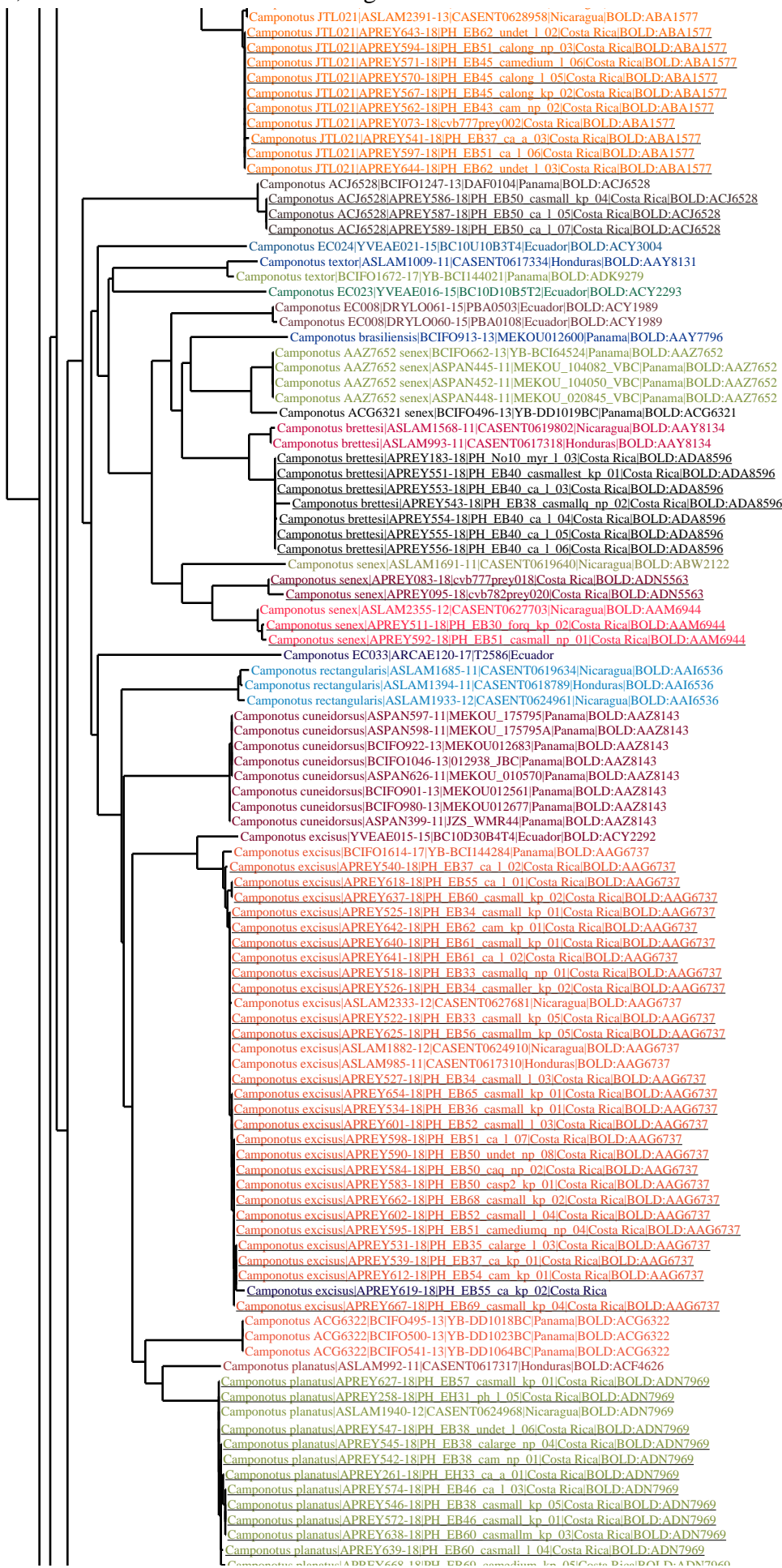
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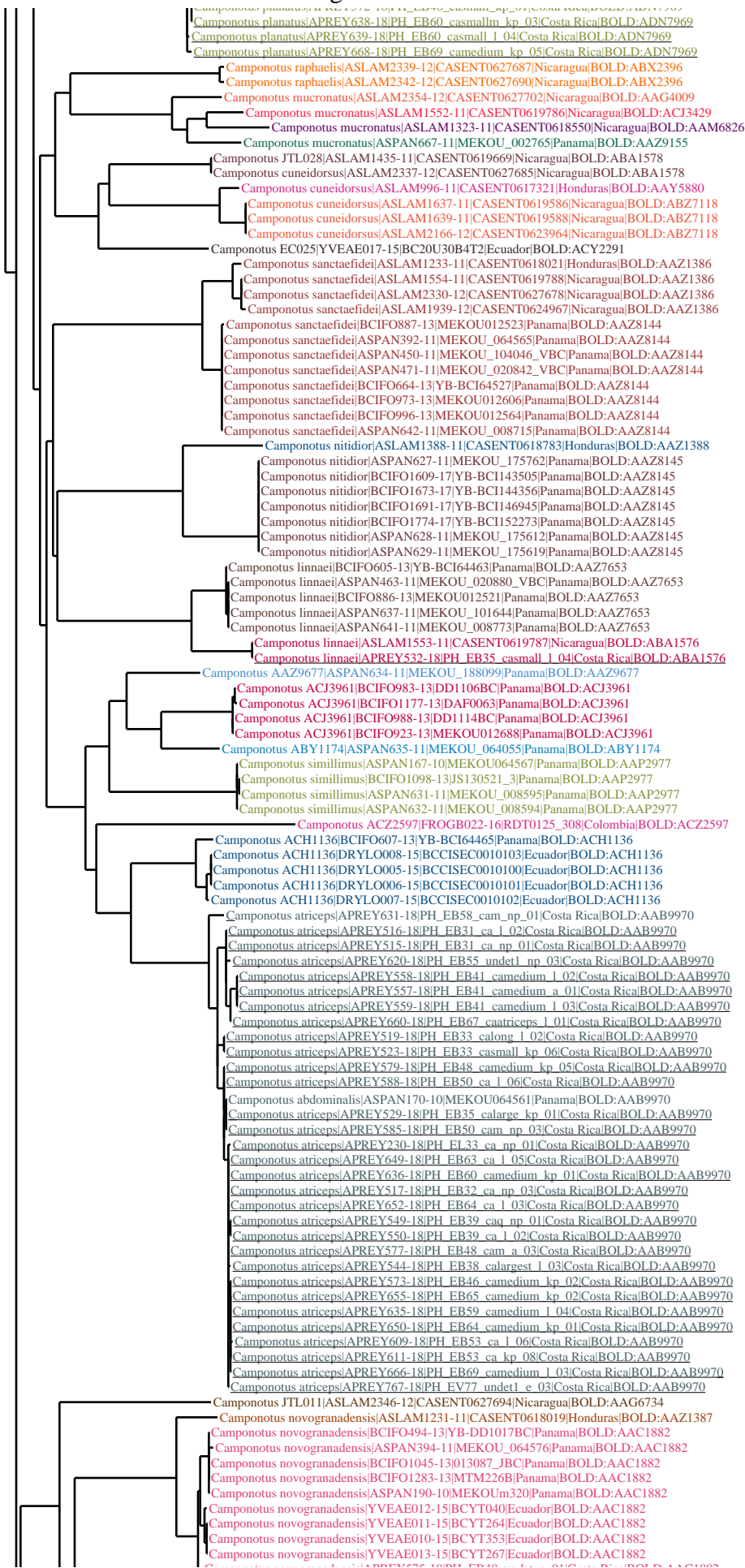


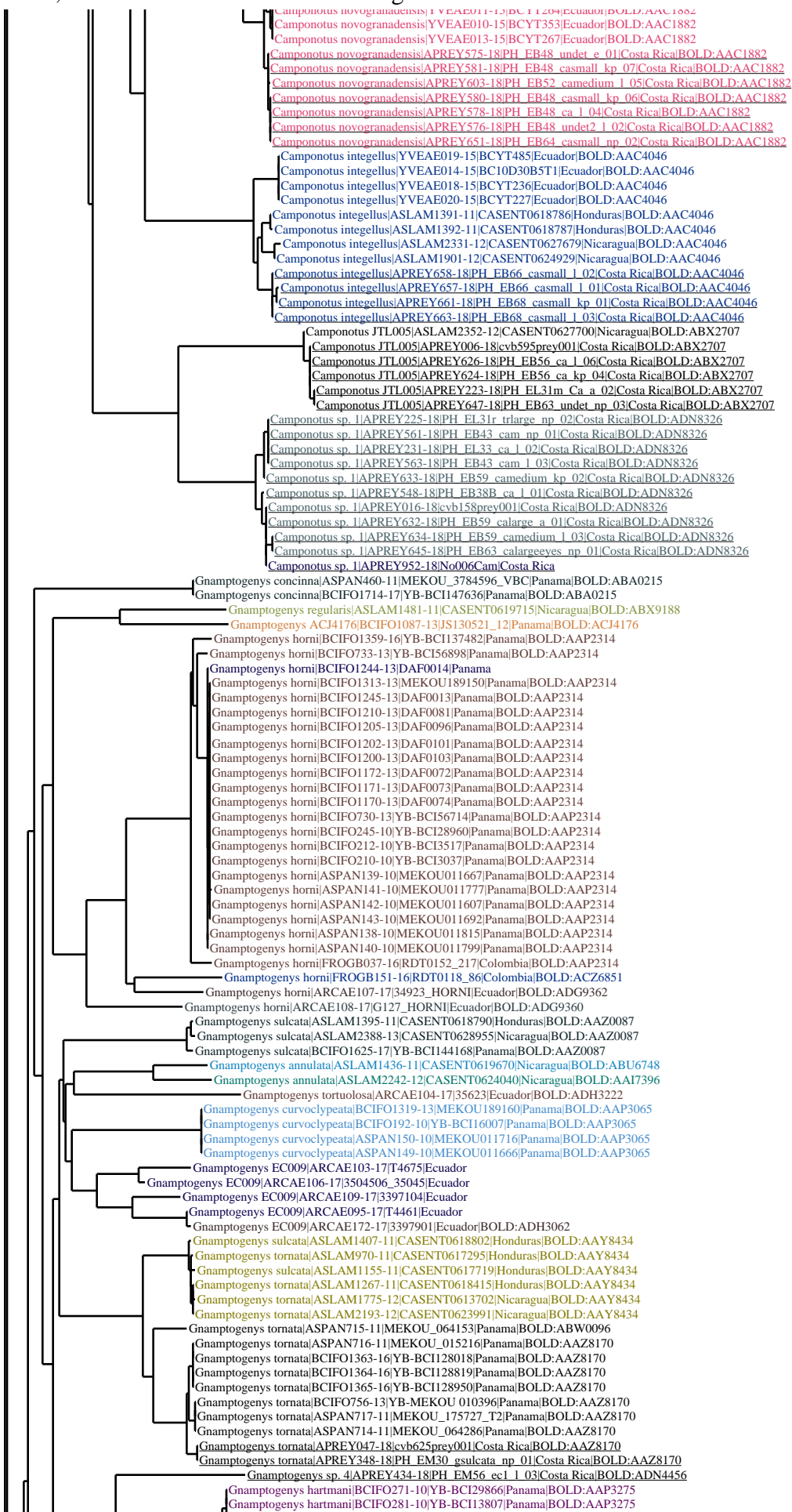
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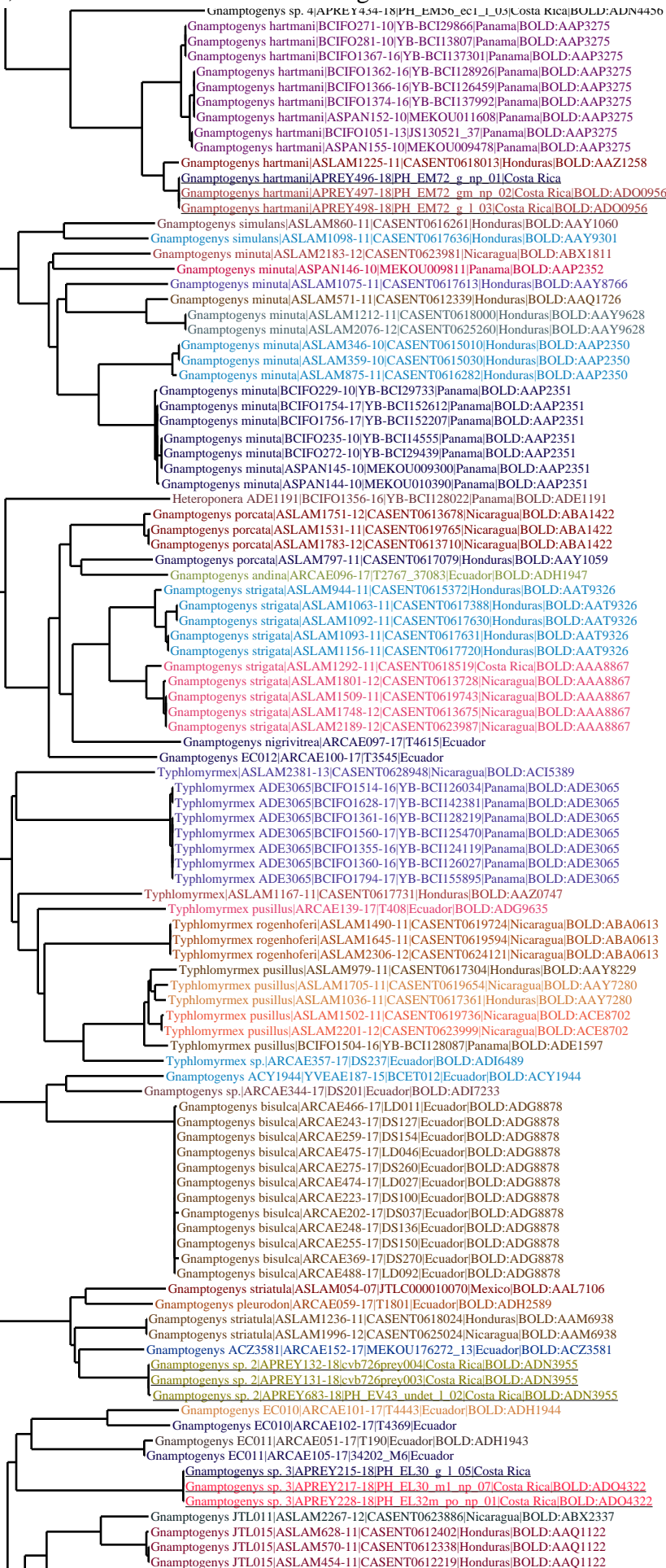


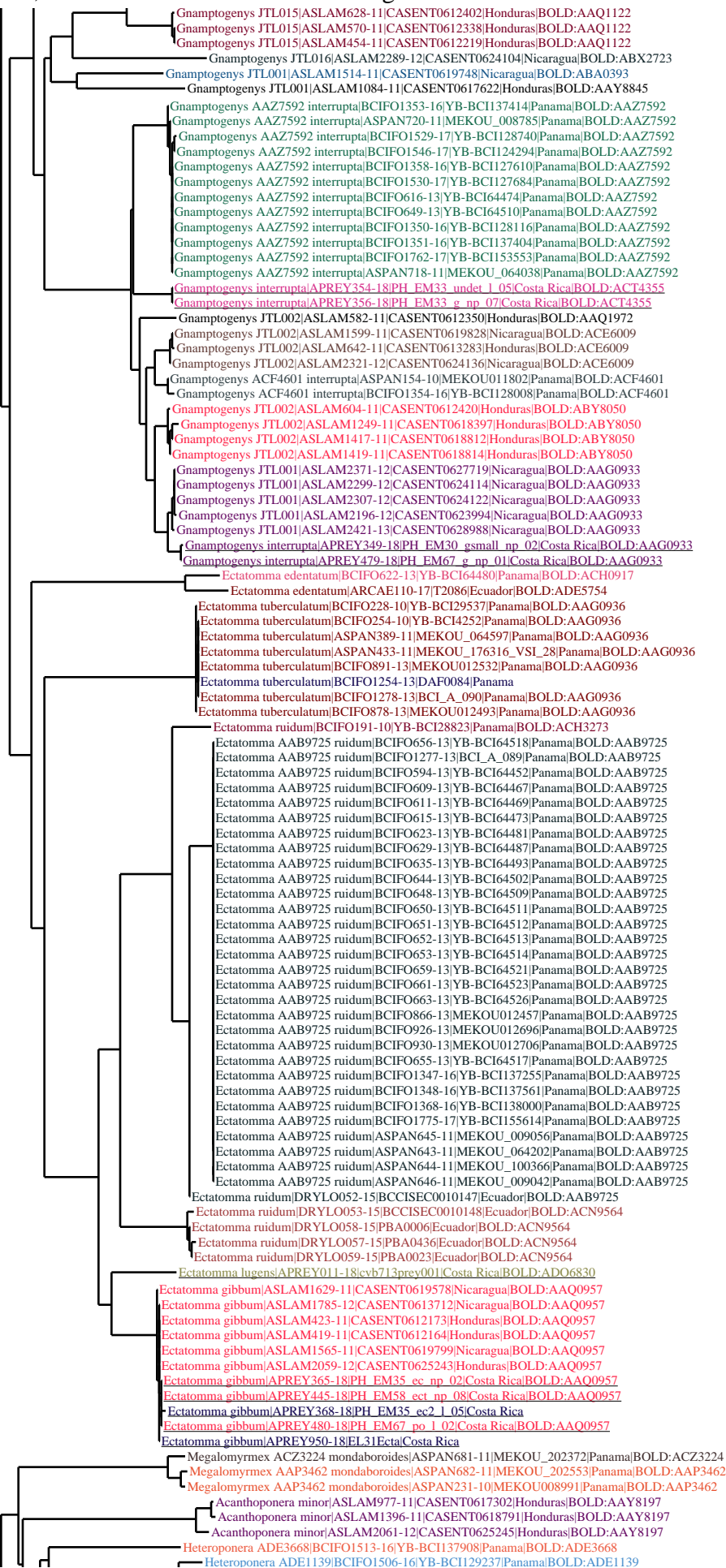
Aphaenogaster arachnoides
 was identified morphologically
 via adult specimens - see
 images of EV48Aph in BOLD

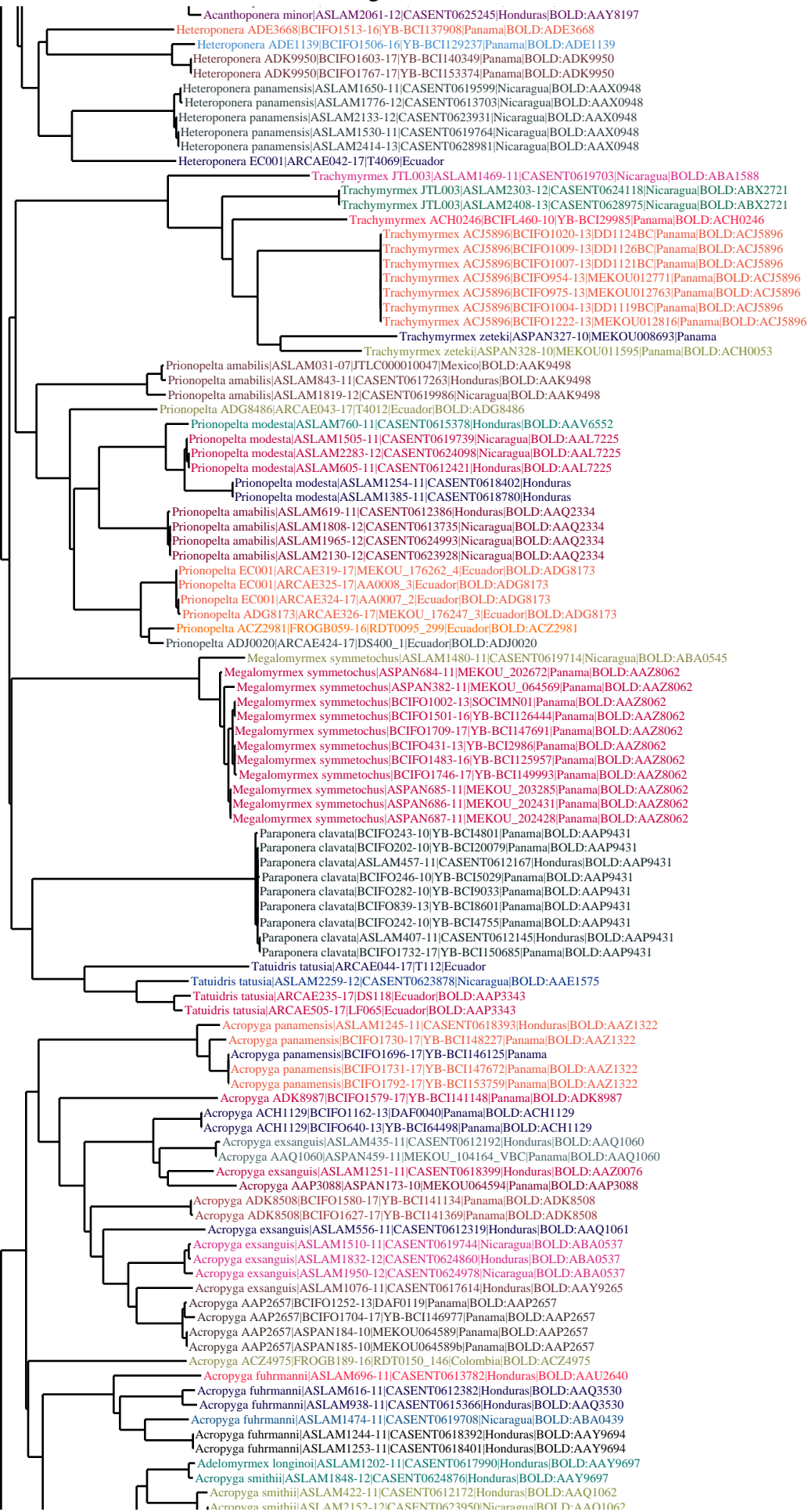


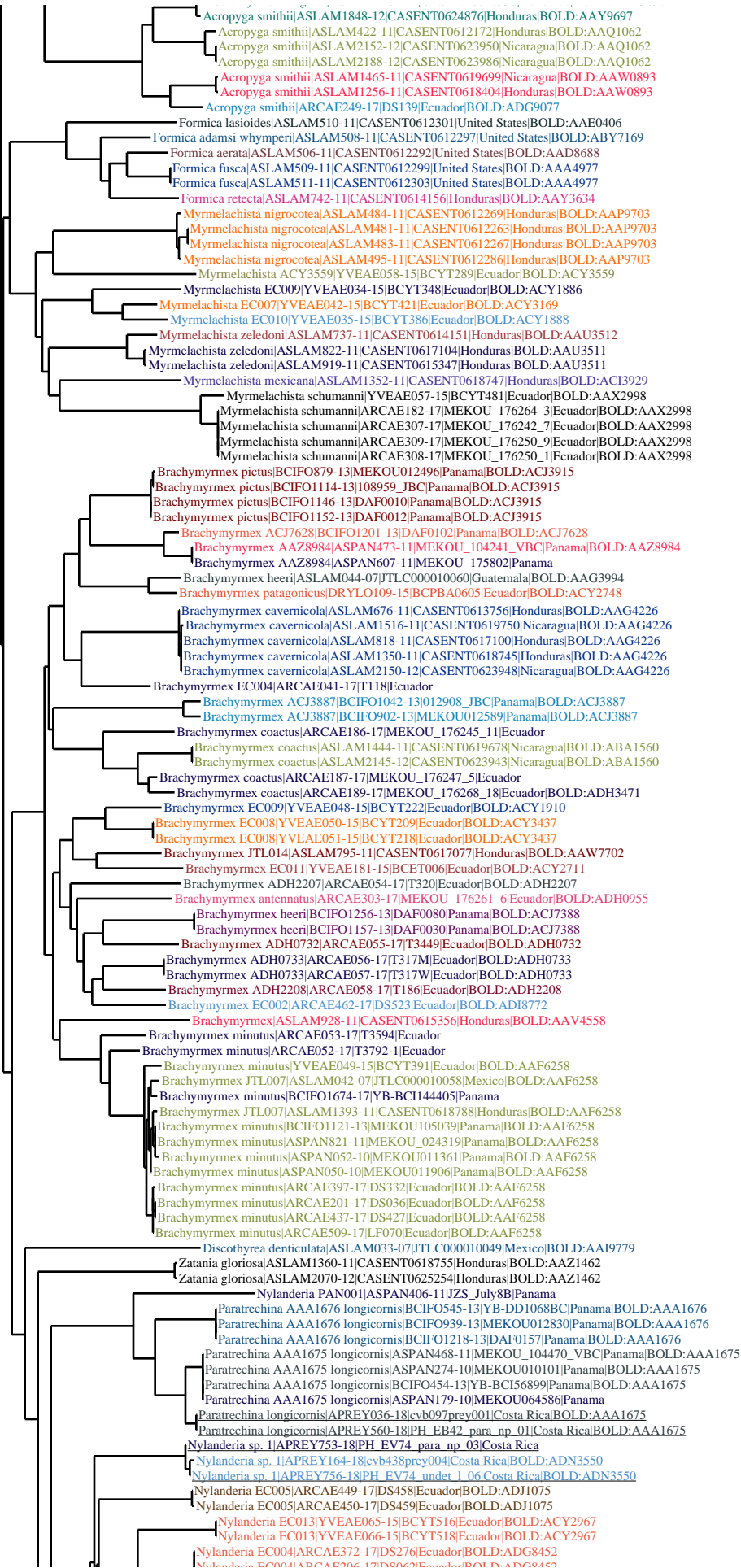


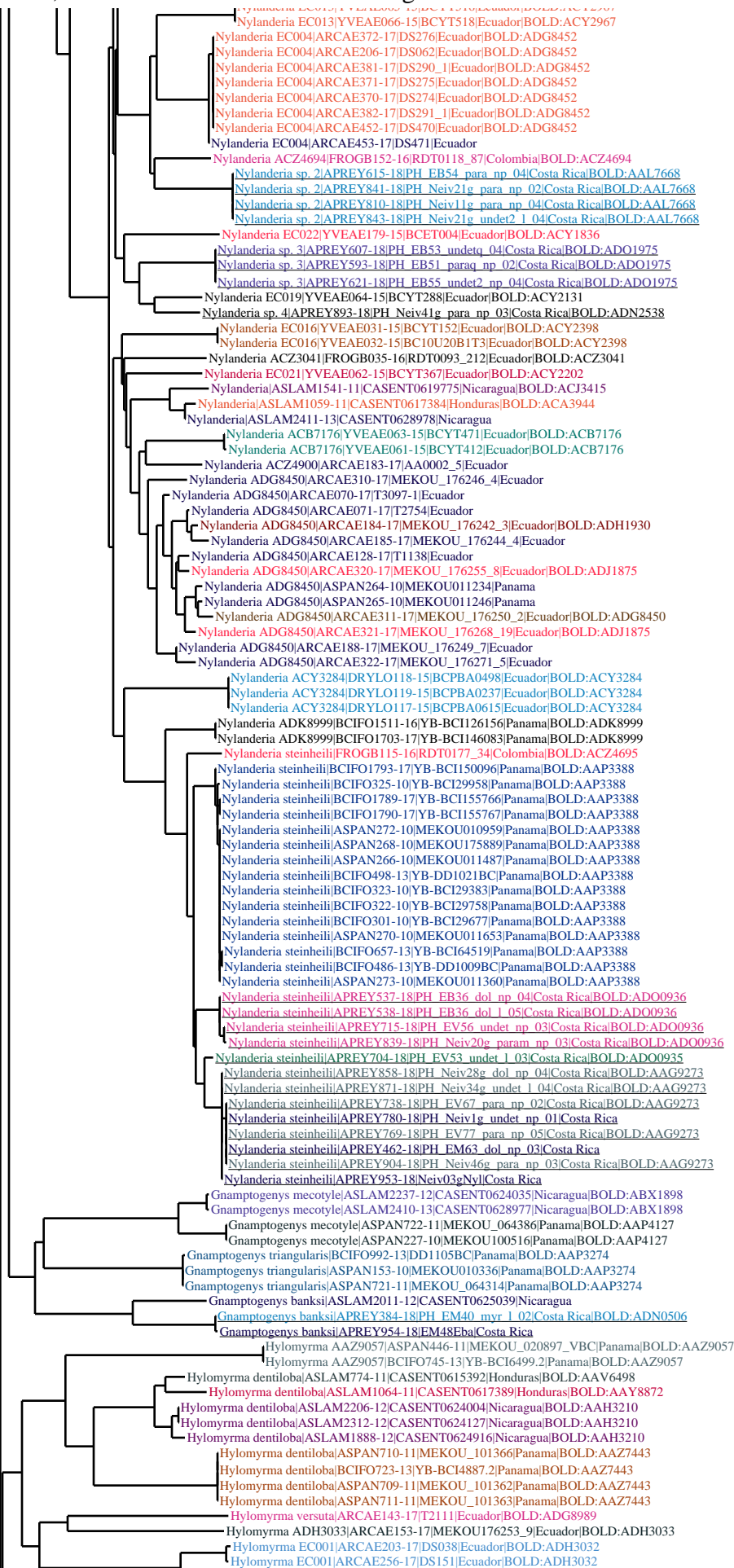


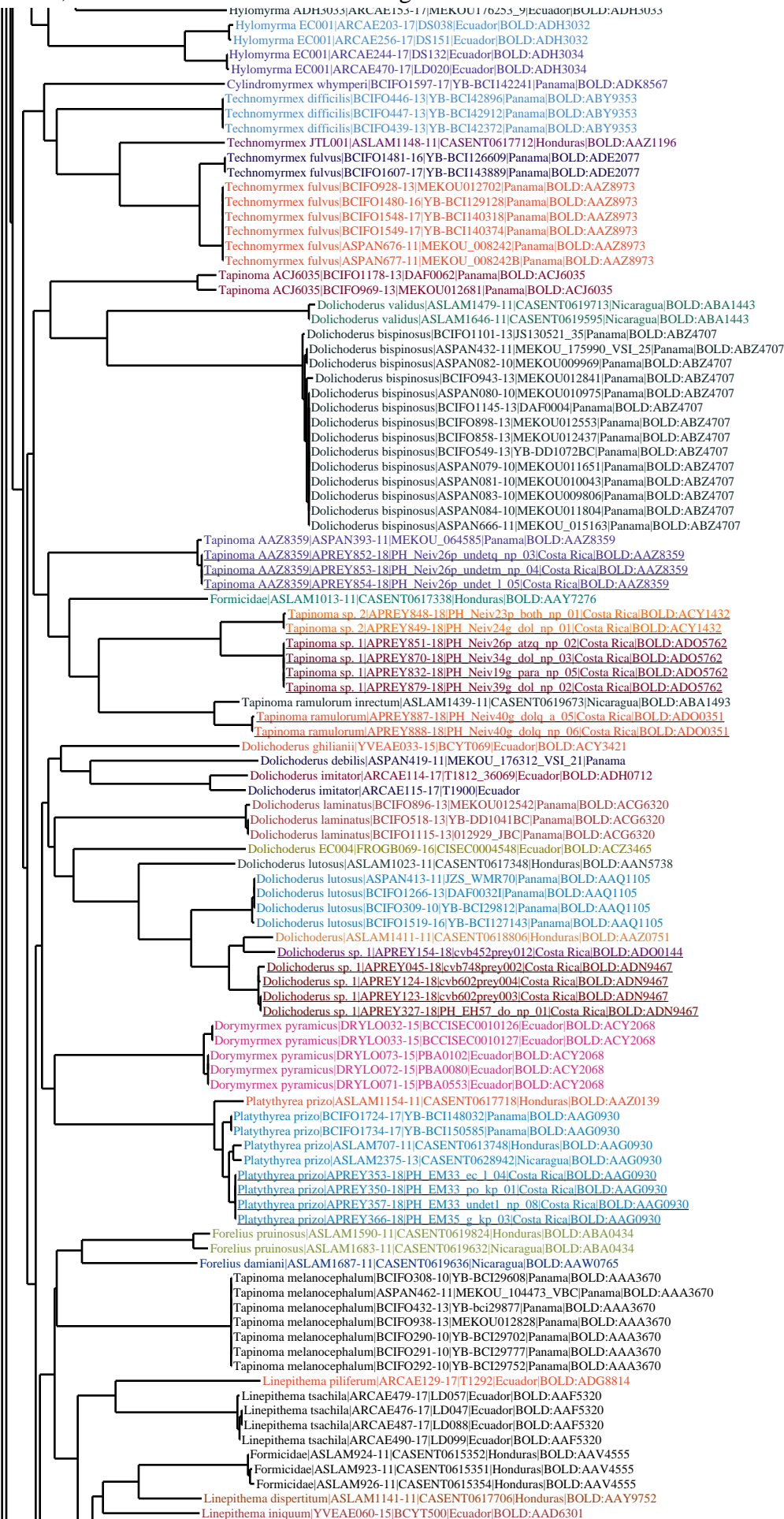


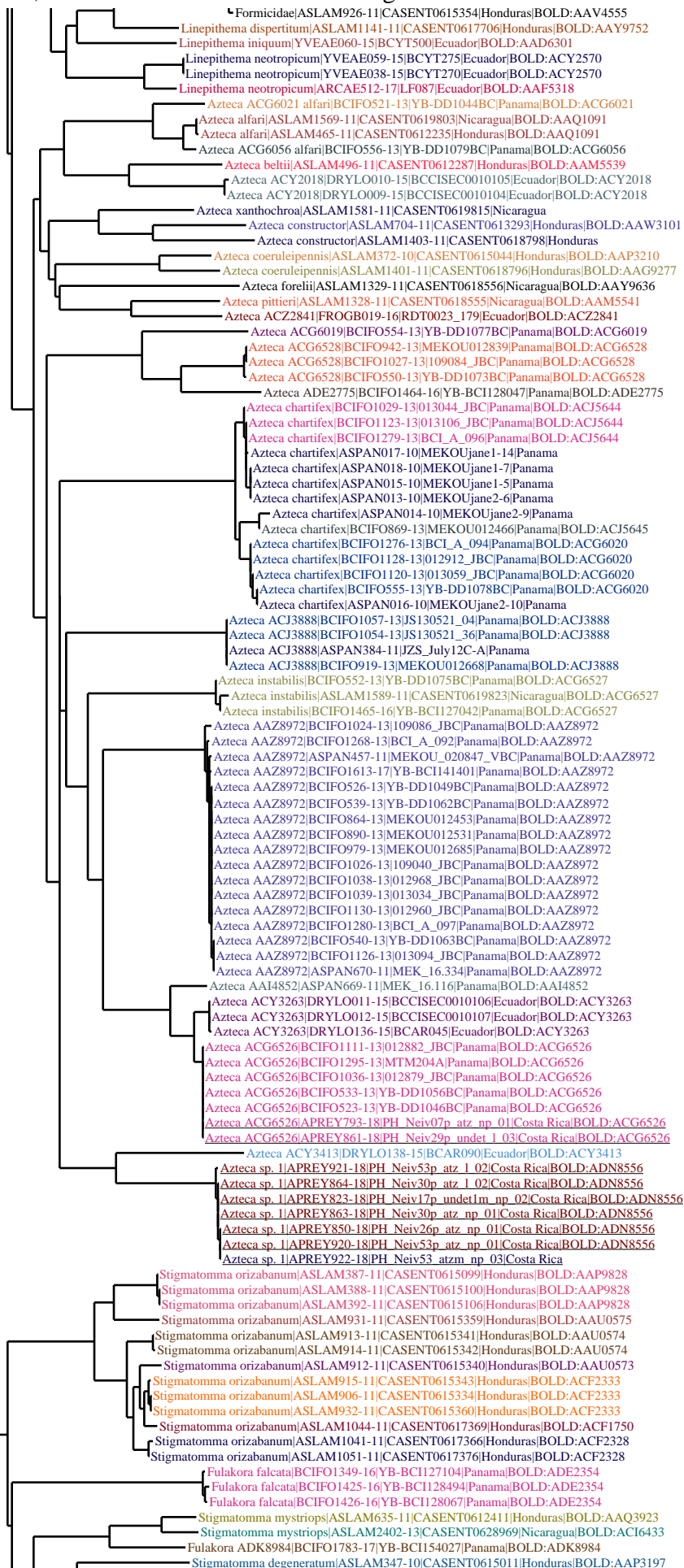


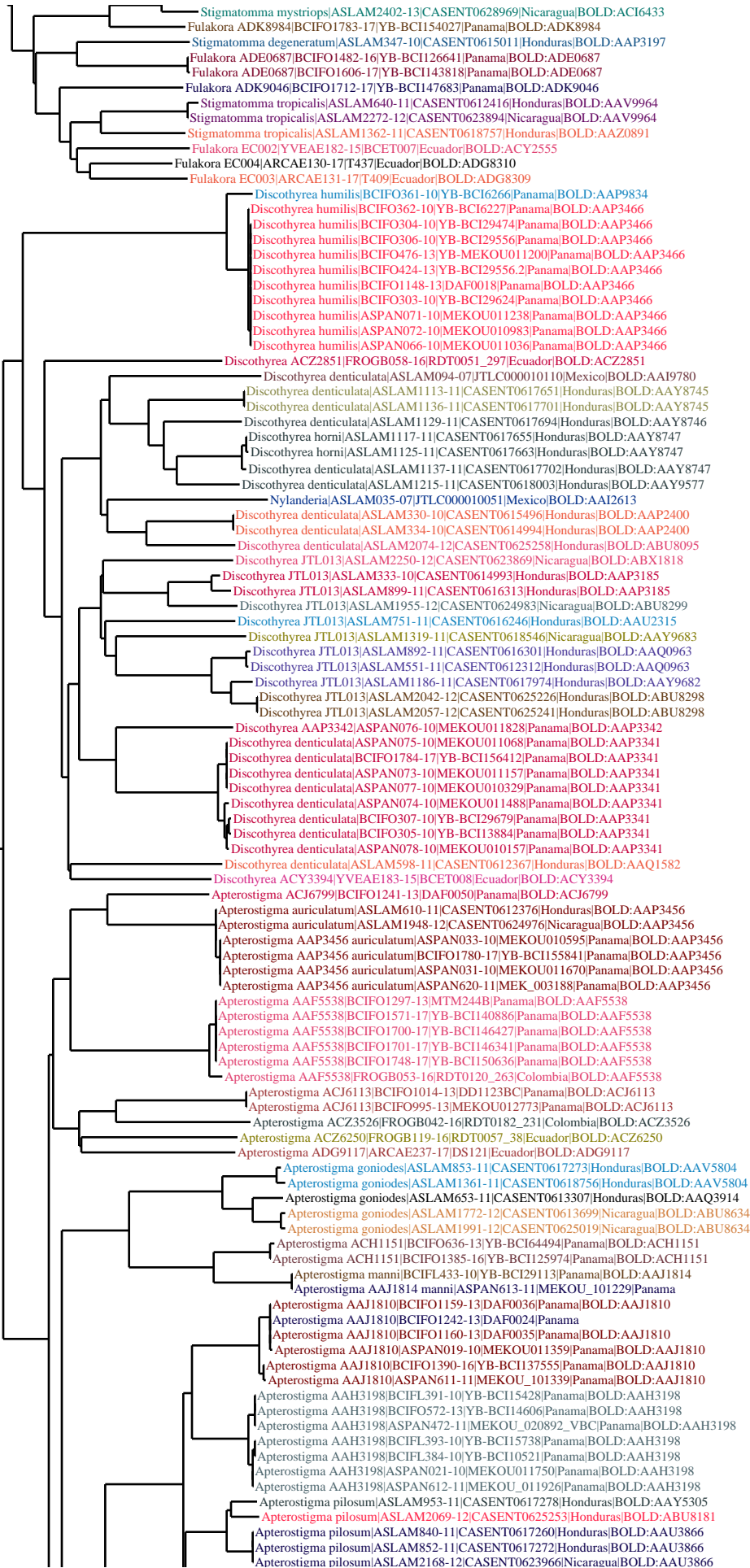


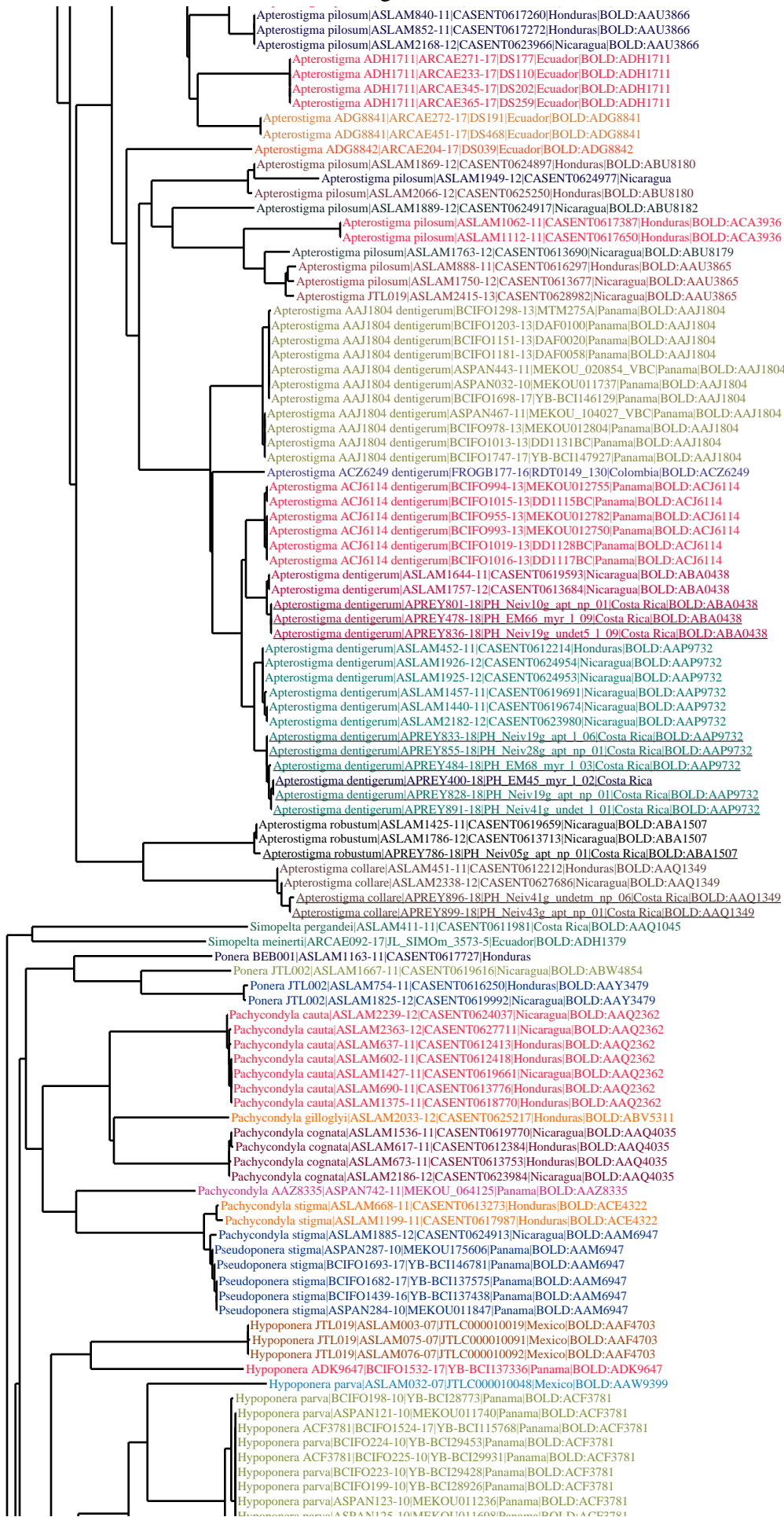


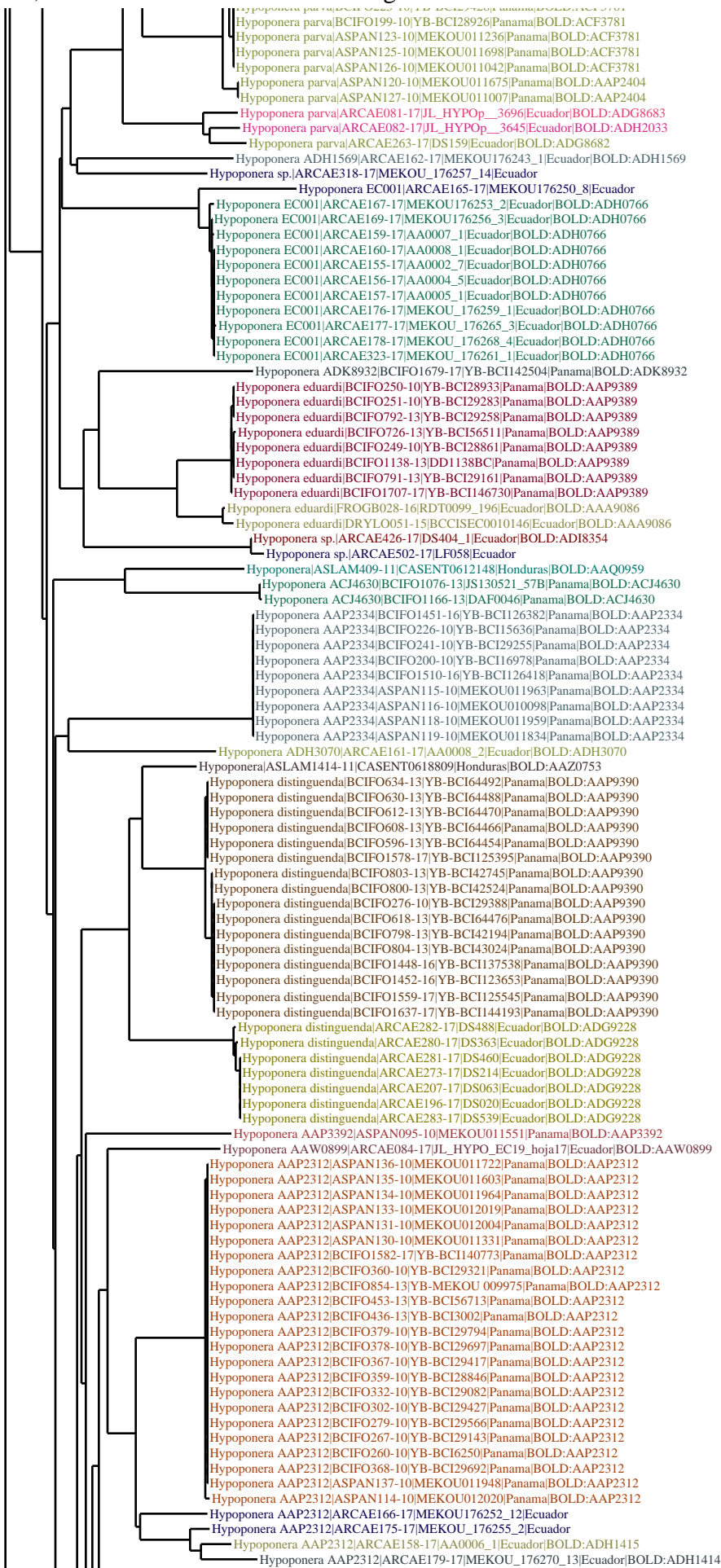


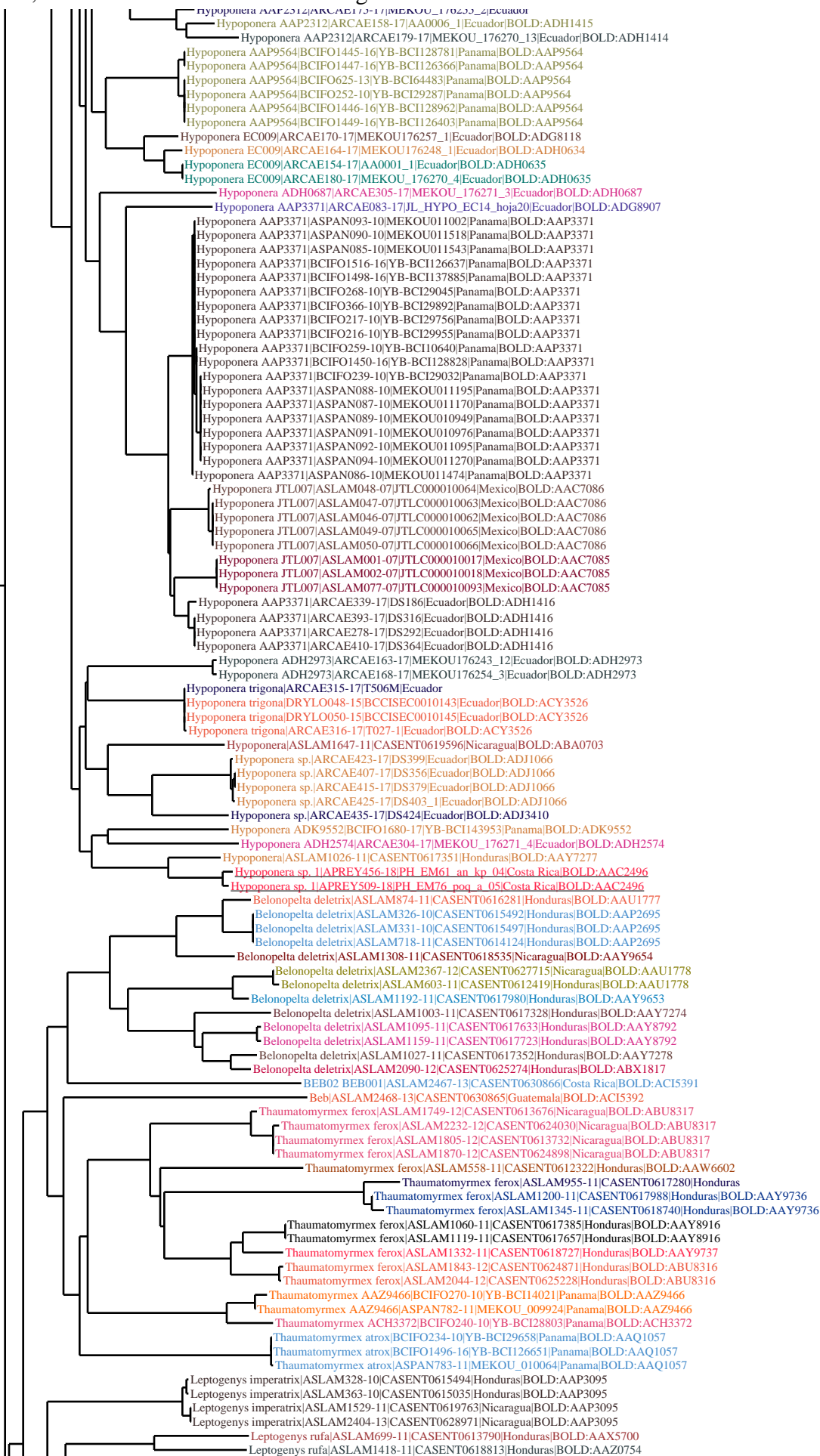


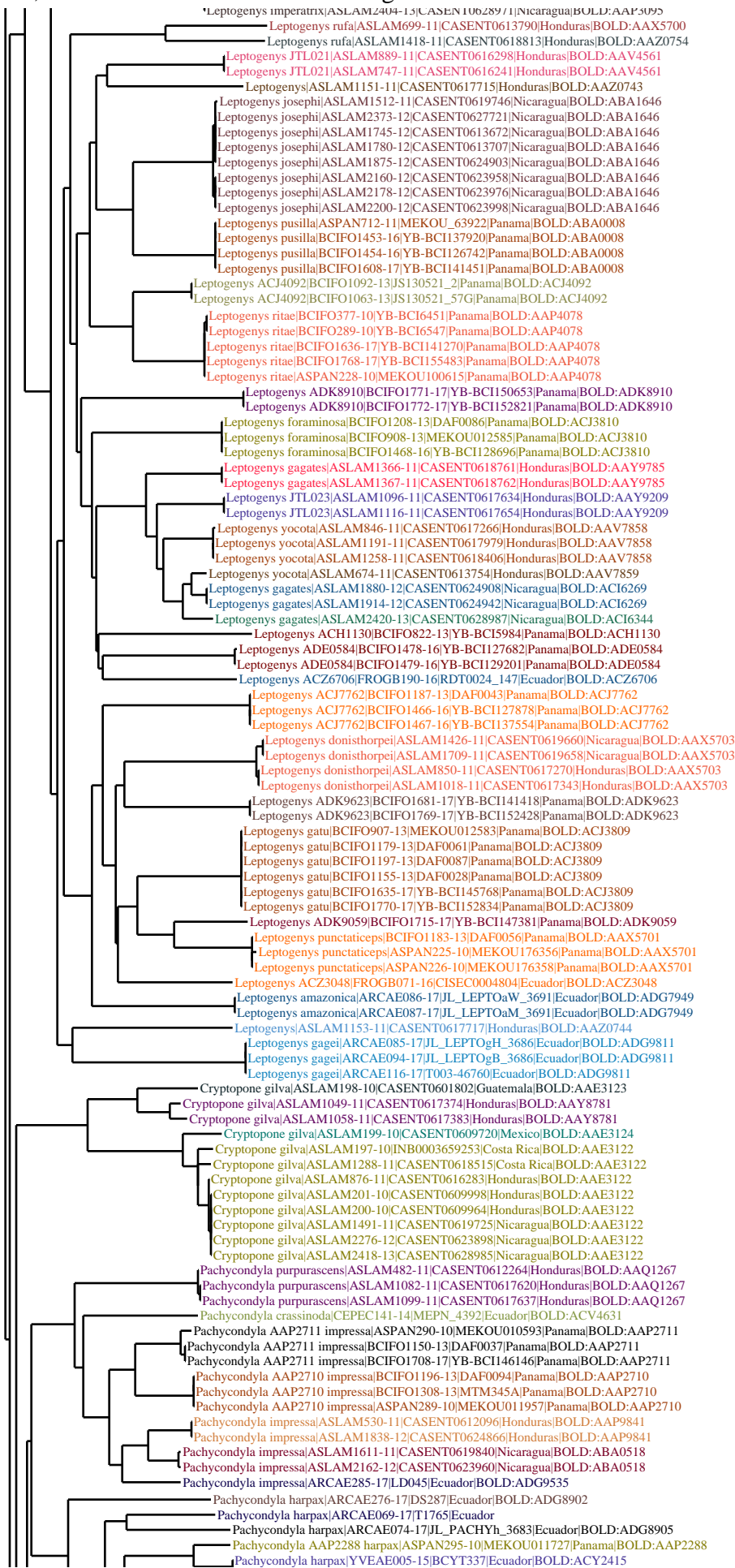




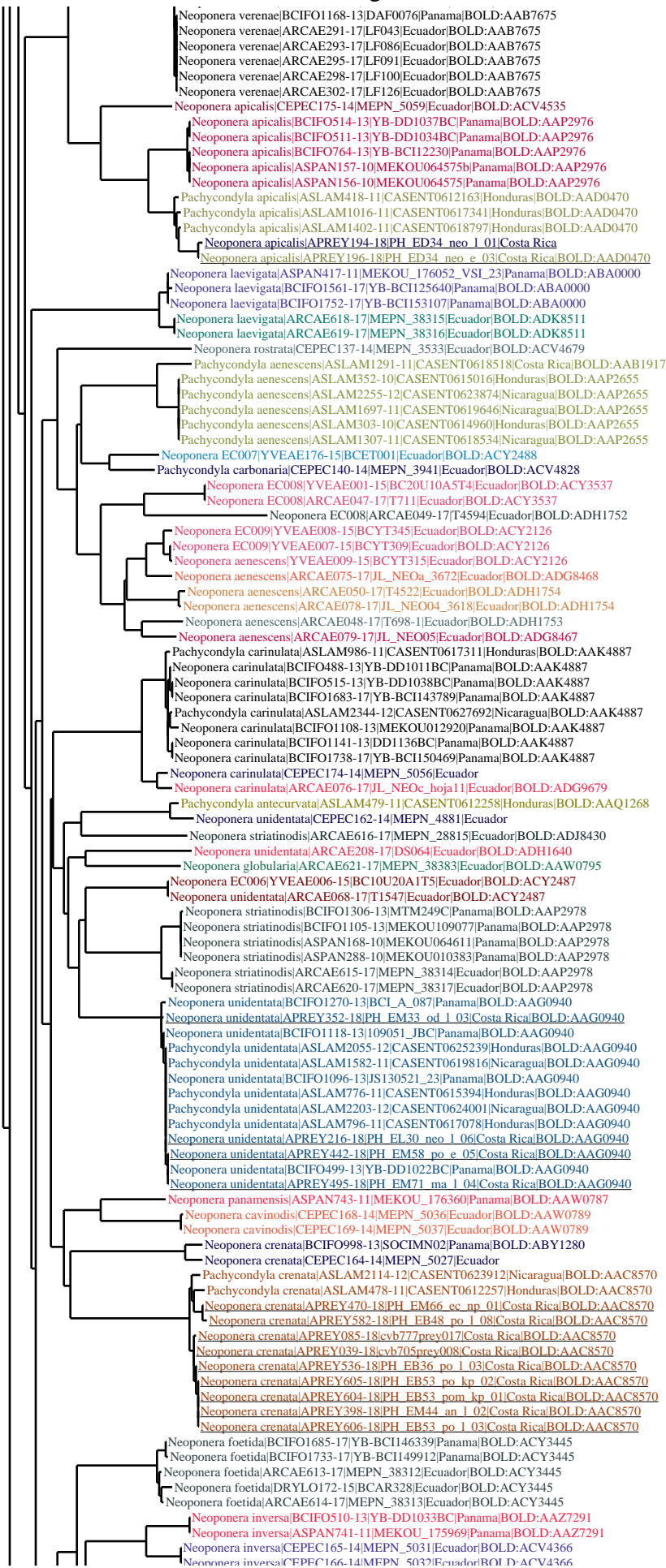


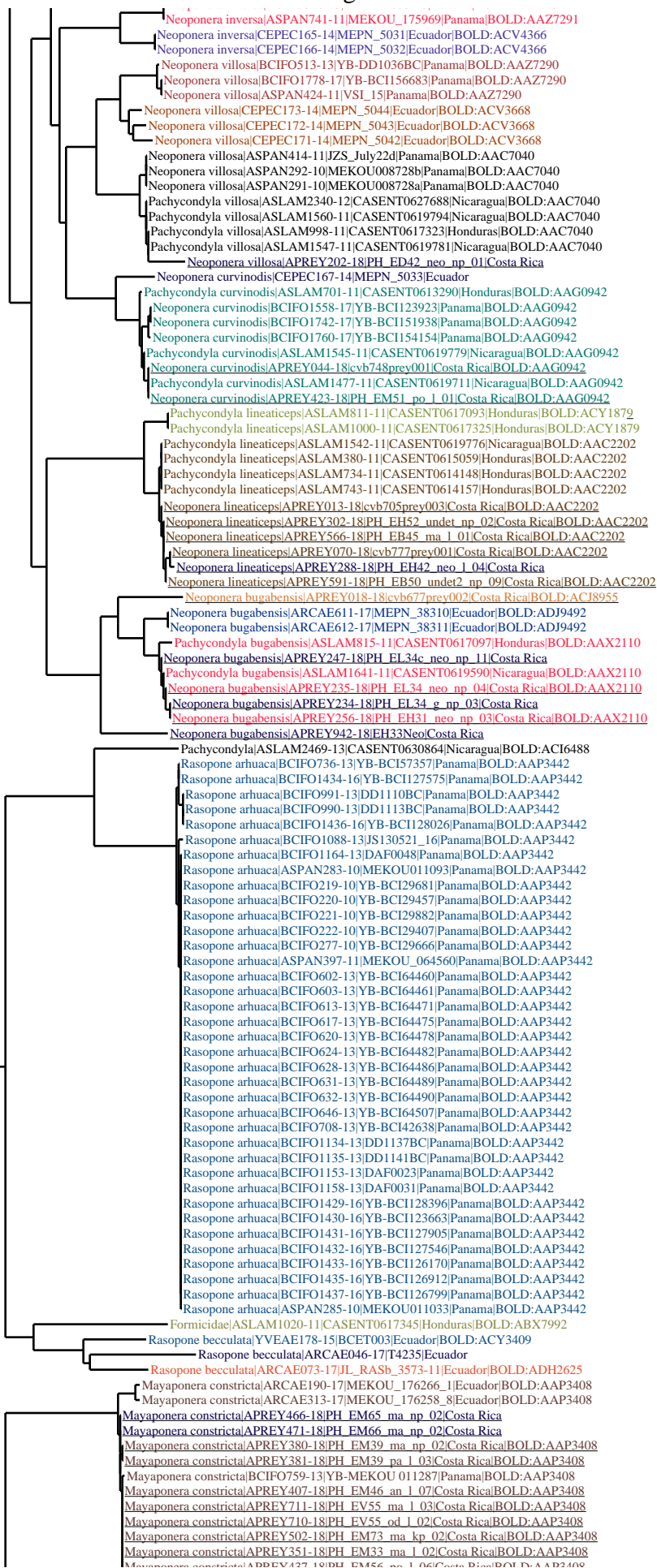






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Pachycondyla harpax|APREY185-18|PH_No11_pa_1_01|Costa Rica|BOLD:ACFI030
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Pachycondyla harpax|APREY025-18|cvb094prev003|Costa Rica|BOLD:ACFI030
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Pachycondyla harpax|APREY005-18|cvb095prev001|Costa Rica|BOLD:ACFI030
Pachycondyla harpax|APREY199-18|PH_ED38_od_l_02|Costa Rica|BOLD:ACFI030
Pachycondyla harpax|APREY200-18|PH_ED41_pa_1_01|Costa Rica|BOLD:ACFI030
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Pachycondyla harpax|APREY372-18|PH_EM36_pa_1_03|Costa Rica|BOLD:ACFI030
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Pachycondyla harpax|APREY203-18|PH_ED42_pa_1_02|Costa Rica
Pachycondyla harpax|APREY379-18|PH_EM39_pa_np_01|Costa Rica
Pachycondyla harpax|APREY489-18|PH_EM70_pa_np_01|Costa Rica
Pachycondyla harpax|APREY501-18|PH_EM73_pa_np_01|Costa Rica|BOLD:ACFI030
Pachycondyla harpax|APREY441-18|PH_EM58_po_l_04|Costa Rica|BOLD:ADO6955
Pachycondyla harpax|APREY193-18|PH_ED30_od_l_01|Costa Rica|BOLD:ADO6955
Pachycondyla harpax|APREY493-18|PH_EM71_pa_1_02|Costa Rica|BOLD:ADO6955
Pachycondyla harpax|APREY775-18|PH_EV81_po_l_02|Costa Rica|BOLD:ADO6955
Rasopone JTL018|ASLAM1613-11|CASENT0619842|Nicaragua|BOLD:AAK4898
Rasopone JTL037|ASLAM2099-12|CASENT0625283|Guatemala|BOLD:ABX2256
Rasopone JTL024|ASLAM939-11|CASENT0615367|Honduras|BOLD:AAU1051
Rasopone JTL024|ASLAM960-11|CASENT0617285|Honduras|BOLD:AAU1051
Rasopone JTL022|ASLAM877-11|CASENT0616284|Honduras|BOLD:AAP2414
Rasopone JTL022|ASLAM725-11|CASENT0614135|Honduras|BOLD:AAP2414
Rasopone JTL022|ASLAM350-10|CASENT0615014|Honduras|BOLD:AAP2414
Rasopone JTL022|ASLAM861-11|CASENT0616262|Honduras|BOLD:AAP2414
Rasopone JTL022|ASLAM744-11|CASENT0614158|Honduras|BOLD:AAP2414
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Rasopone JTL022|ASLAM2197-12|CASENT0623995|Nicaragua|BOLD:AAD6406
Rasopone minuta|ASLAM194-10|JTLCO00014374|Mexico|BOLD:AAD4087
Rasopone minuta|ASLAM952-11|CASENT0617277|Honduras|BOLD:AAD4084
Rasopone pergandei|BCIFO1495-16|YB-BCI137492|Panama|BOLD:ADE4289
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Rasopone BOLDAAZ0750|ASLAM1410-11|CASENT0618805|Honduras|BOLD:AAZ0750
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Rasopone JTL016|ASLAM191-10|INB0003662398|Costa Rica|BOLD:AAD4085
Rasopone JTL016|ASLAM193-10|INB0004100111|Costa Rica|BOLD:AAD4085
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Rasopone JTL016|ASLAM572-11|CASENT0612340|Honduras|BOLD:AAD4085
Rasopone ferruginea|BCIFO231-10|YB-BCI30022|Panama|BOLD:AAQ0760
Rasopone ferruginea|BCIFO218-10|YB-BCI29530|Panama|BOLD:AAQ0760
Rasopone ferruginea|ASPAN286-10|MEKOU101162|Panama|BOLD:AAQ0760
Rasopone ferruginea|BCIFO1515-16|YB-BCI129215|Panama|BOLD:AAQ0760
Rasopone ferruginea|BCIFO1706-17|YB-BCI146464|Panama|BOLD:AAQ0760
Rasopone ADK8965|BCIFO1630-17|YB-BCI144032|Panama|BOLD:ADK8965
Rasopone ferruginea|ARCAE045-17|T189|Ecuador|BOLD:ADG409
Neoponera verena|YVEAE002-15|BCYT235|Ecuador|BOLD:AAB7675
Neoponera verena|YVEAE003-15|BCI0D30B3T4|Ecuador|BOLD:AAB7675
Neoponera verena|ARCAE077-17|JL_NeoV_3666|Ecuador|BOLD:AAB7675
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Pachycondyla verena|ASLAM408-11|CASENT0612146|Honduras|BOLD:AAB7675
Neoponera verena|BCIFO487-13|YB-DD1010BC|Panama|BOLD:AAB7675
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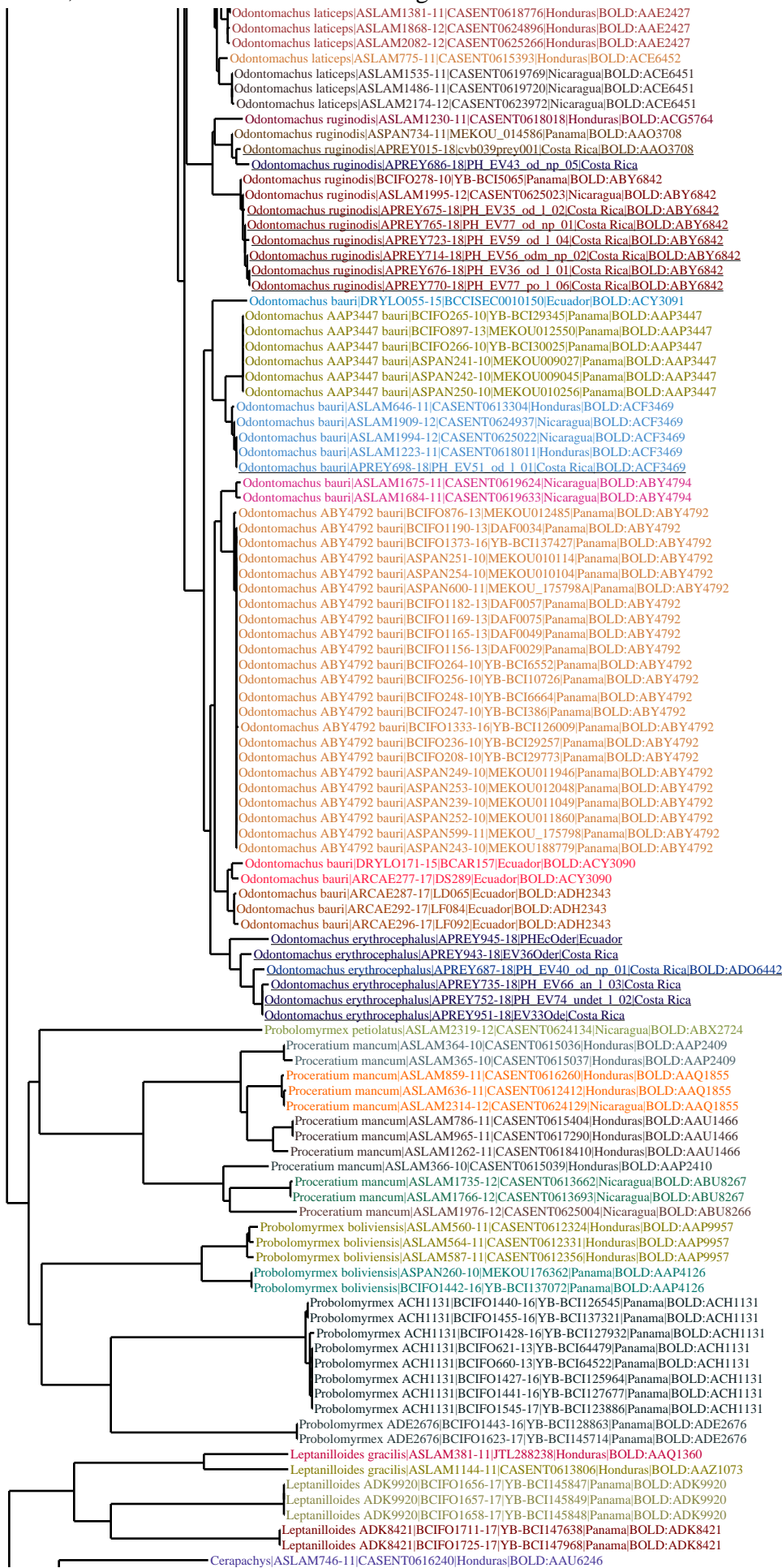




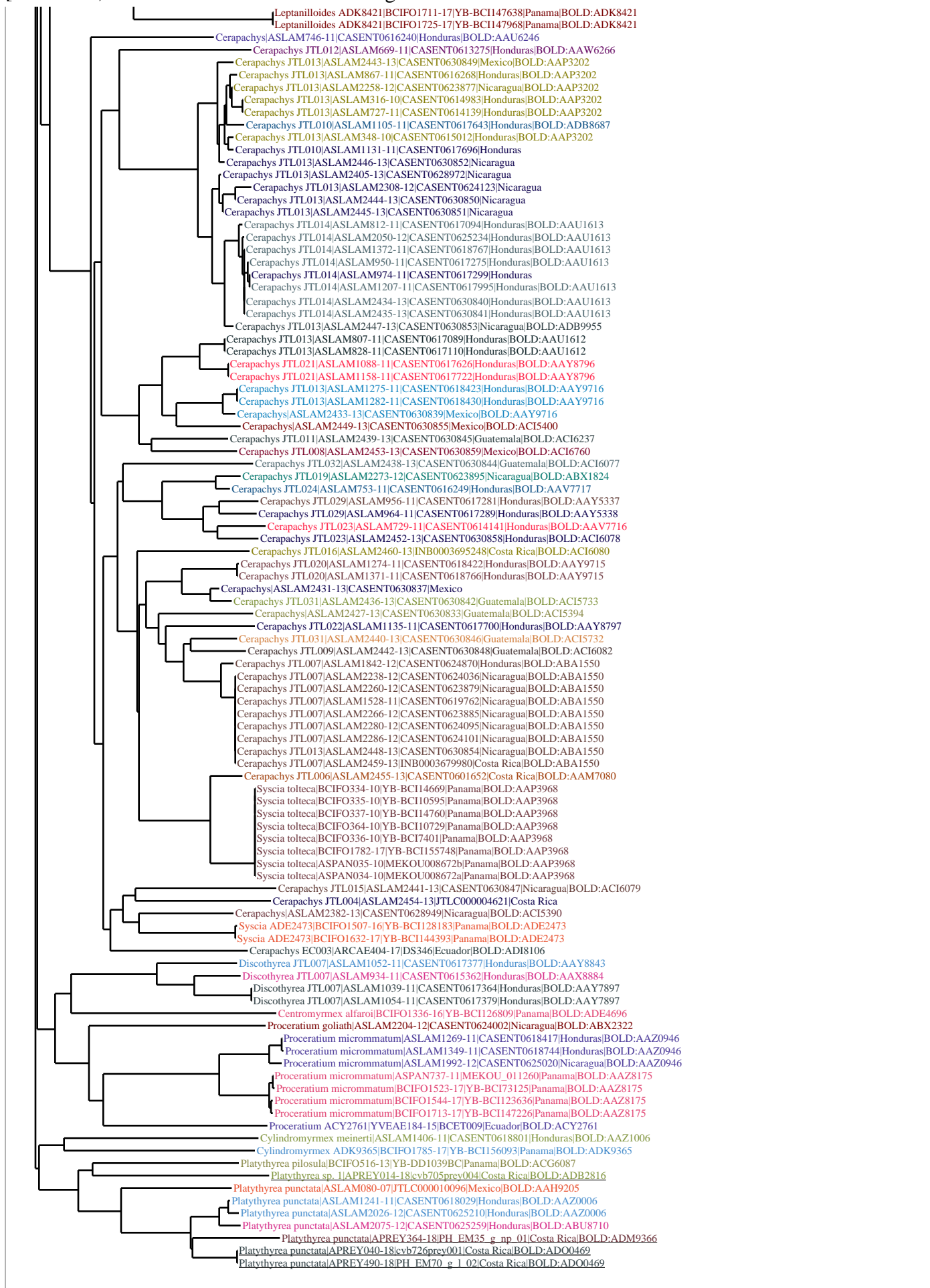
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Mayaponera constricta|APREY437-18|PH_EM56_po_l_06|Costa Rica|BOLD: AAP3408
Mayaponera constricta|APREY417-18|PH_EM49_an_l_06|Costa Rica|BOLD: AAP3408
Mayaponera constricta|APREY394-18|PH_EM42_pa_kp_03|Costa Rica|BOLD: AAP3408
Mayaponera constricta|APREY377-18|PH_EM37_undet_np_02|Costa Rica|BOLD: AAP3408
Mayaponera constricta|APREY358-18|PH_EM33_undet2_np_09|Costa Rica|BOLD: AAP3408
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Mayaponera constricta|BCIFO1186-13|DAF0044|Panama|BOLD: AAP3408
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Pachycondyla constricta|ASLAM2043-12|CASENT0625227|Honduras|BOLD: AAP3408
Pachycondyla constricta|ASLAM1331-11|CASENT0618726|Honduras|BOLD: AAP3408
Pachycondyla constricta|ASLAM534-11|CASENT0612105|Honduras|BOLD: AAP3408
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Mayaponera constricta|APREY411-18|PH_EM48_po_l_02|Costa Rica|BOLD: AAP3408
Mayaponera constricta|APREY227-18|PH_EL31r_po_kp_04|Costa Rica|BOLD: AAP3408
Mayaponera constricta|APREY716-18|PH_EV58_po_l_01|Costa Rica|BOLD: AAP3408
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Mayaponera constricta|APREY476-18|PH_EM66_ma_l_07|Costa Rica
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Anochetus EC001|YVEAE185-15|BCET010|Ecuador|BOLD: ACY2359
Anochetus EC001|ARCAE224-17|DS101|Ecuador|BOLD: ADG9238
Anochetus EC001|ARCAE245-17|DS133|Ecuador|BOLD: ADG9238
Anochetus EC001|ARCAE274-17|DS222|Ecuador|BOLD: ADG9238
Anochetus COL001|FROGB010-16|RDT0119_167|Colombia|BOLD: ACZ3172
Anochetus simoni|ARCAE093-17|T4581|Ecuador|BOLD: ADG9590
Anochetus ADH2922|ARCAE317-17|T1381|Ecuador|BOLD: ADH2922
Anochetus mayri|ASLAM838-11|CASENT0617258|Honduras|BOLD: AAU3959
Anochetus mayri|ASLAM1061-11|CASENT0617386|Honduras|BOLD: AAY8832
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Anochetus mayri|ASLAM1413-11|CASENT0618808|Honduras|BOLD: AAZ0752
Anochetus mayri|ASLAM1024-11|CASENT0617349|Honduras|BOLD: AAQ3205
Anochetus minans|ASLAM662-11|CASENT0613321|Honduras|BOLD: AAQ3205
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Anochetus mayri|ASLAM709-11|CASENT0613295|Honduras|BOLD: AAQ3205
Anochetus minans|ASLAM1851-12|CASENT0624879|Honduras|BOLD: AAQ3205
Anochetus mayri|ASLAM1871-12|CASENT0624899|Nicaragua|BOLD: ABU8057
Anochetus mayri|ASLAM053-07|JTLCO00010069|Mexico|BOLD: AAJ2604
Anochetus mayri|ASLAM2103-12|CASENT0623901|Nicaragua|BOLD: ABA0348
Anochetus mayri|ASLAM1532-11|CASENT0619766|Nicaragua|BOLD: ABA0348
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Anochetus mayri|APREY393-18|PH_EM42_an_l_02|Costa Rica|BOLD: ABA0348
Anochetus mayri|APREY425-18|PH_EM54_ecm_np_01|Costa Rica|BOLD: ABA0348
Anochetus mayri|APREY390-18|PH_EM41_an_l_05|Costa Rica|BOLD: ABA0348
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Anochetus mayri|APREY387-18|PH_EM41_an_kp_02|Costa Rica
Anochetus mayri|APREY374-18|PH_EM36_an_l_05|Costa Rica
Anochetus mayri|APREY427-18|PH_EM54_an_l_03|Costa Rica
Anochetus targionii|ARCAE089-17|JL_ANO_hoja3|Ecuador|BOLD: AAW1363
Anochetus diegensis|ASPAN004-10|MEKOU009973|Panama|BOLD: AAP3470
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Anochetus diegensis|BCIFO238-10|YB-BCI29307|Panama|BOLD: AAP3470
Anochetus diegensis|BCIFO284-10|YB-BCI29621|Panama|BOLD: AAP3470
Anochetus diegensis|BCIFO285-10|YB-BCI6457|Panama|BOLD: AAP3470
Anochetus diegensis|BCIFO232-10|YB-BCI10471|Panama|BOLD: AAP3470
Anochetus diegensis|BCIFO1344-16|YB-BCI124015|Panama|BOLD: AAP3470
Anochetus diegensis|BCIFO1332-16|YB-BCI128205|Panama|BOLD: AAP3470
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Anochetus diegensis|ASPAN005-10|MEKOU009826|Panama|BOLD: AAP3470
Anochetus diegensis|ARCAE090-17|JL_ANO_hoja6|Ecuador|BOLD: AAP3470
Anochetus mayri|ARCAE112-17|T1870|Ecuador|BOLD: ADG9024
Anochetus mayri|ARCAE111-17|T2036-1|Ecuador
Anochetus mayri|ARCAE088-17|JL_ANO_hoja18|Ecuador|BOLD: ADG9024
Anochetus mayri|APREY487-18|PH_EM69_an_l_03|Costa Rica|BOLD: ADG9024
Anochetus mayri|APREY785-18|PH_Neiv03g_an_kp_02|Costa Rica|BOLD: ADG9024
Anochetus mayri|APREY359-18|PH_EM34_anlarge_np_01|Costa Rica
Anochetus mayri|APREY837-18|PH_Neiv20g_an_l_01|Costa Rica|BOLD: ADG9024
Anochetus orchidicola|ASLAM2288-12|CASENT0624103|Nicaragua|BOLD: AAV9768
Anochetus orchidicola|ASLAM716-11|CASENT0614119|Honduras|BOLD: AAV9768
Odontomachus hastatus|APREY205-18|PH_ED43_od_l_02|Costa Rica|BOLD: ABA0725
Odontomachus hastatus|APREY206-18|PH_ED43_od_l_03|Costa Rica|BOLD: ABA0725
Odontomachus hastatus|ASLAM1478-11|CASENT0619712|Nicaragua|BOLD: ABA0725

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 Odontomachus hastatus|ASLAM1431-11|CASENT0619665|Nicaragua|BOLD:ABA0725
 Odontomachus hastatus|APREY766-18|PH_EV77_od_1_02|Costa Rica|BOLD:ABA0725
 Odontomachus hastatus|APREY768-18|PH_EV77_undet2_e_04|Costa Rica|BOLD:ABA0725
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 Odontomachus cheliferi|ASLAM649-11|CASENT0613279|Honduras|BOLD:AAI3610
 Odontomachus cheliferi|ASLAM1353-11|CASENT0618748|Honduras|BOLD:AAI3610
 Odontomachus cheliferi|ASLAM1400-11|CASENT0618795|Honduras|BOLD:AAI3610
 Odontomachus cheliferi|ASLAM1779-12|CASENT0613706|Nicaragua|BOLD:AAI3610
 Odontomachus cheliferi|ASPAN736-11|MEK_16214|Panama|BOLD:AAI3610
 Odontomachus cheliferi|BCIFO1334-16|YB-BCII27879|Panama|BOLD:AAI3610
 Odontomachus cheliferi|ARCAE113-17|T2388|Ecuador|BOLD:ADH2166
 Odontomachus meinerti|ASLAM2132-12|CASENT0623930|Nicaragua|BOLD:ABX1808
 Odontomachus meinerti|ARCAE080-17|JL_ODOm_hoja19|Ecuador|BOLD:ADH3542
 Odontomachus meinerti|ARCAE270-17|DS175|Ecuador|BOLD:ADH3542
 Odontomachus meinerti|ARCAE290-17|LF001|Ecuador|BOLD:ADH3542
 Odontomachus meinerti|ASLAM1538-11|CASENT0619772|Nicaragua|BOLD:ABZ2880
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 Odontomachus meinerti|ASLAM943-11|CASENT0615371|Honduras|BOLD:AAB9905
 Odontomachus meinerti|ASLAM1012-11|CASENT0617337|Honduras|BOLD:AAB9905
 Odontomachus meinerti|ASLAM1246-11|CASENT0618394|Honduras|BOLD:AAB9905
 Odontomachus meinerti|ASLAM1408-11|CASENT0618803|Honduras|BOLD:AAB9905
 Odontomachus meinerti|ASLAM2053-12|CASENT0625237|Honduras|BOLD:AAB9905
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 Odontomachus panamensis|BCIFO206-10|YB-BCI8677|Panama|BOLD:AAP9640
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 Odontomachus panamensis|APREY067-18|cvb796prey016|Costa Rica|BOLD:AAP9640
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 Odontomachus panamensis|APREY059-18|cvb796prey021|Costa Rica|BOLD:AAP9640
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 Odontomachus panamensis|APREY050-18|cvb796prey008|Costa Rica|BOLD:AAP9640
 Odontomachus panamensis|APREY048-18|cvb796prey010|Costa Rica|BOLD:AAP9640
 Odontomachus panamensis|APREY046-18|cvb747prey001|Costa Rica|BOLD:AAP9640
 Odontomachus panamensis|BCIFO204-10|YB-BCI8604|Panama|BOLD:AAP9640
 Odontomachus panamensis|BCIFO203-10|YB-BCI8692|Panama|BOLD:AAP9640
 Odontomachus panamensis|APREY072-18|cvb777prey019|Costa Rica|BOLD:AAP9640
 Odontomachus panamensis|APREY719-18|PH_EV58_po_1_04|Costa Rica|BOLD:AAP9640
 Odontomachus panamensis|APREY748-18|PH_EV73_undet_e_03|Costa Rica|BOLD:AAP9640
 Odontomachus opaciventris|ASPAN171-10|MEKOU064599|Panama|BOLD:AAP2979
 Odontomachus opaciventris|BCIFO1370-16|YB-BCII37374|Panama|BOLD:AAP2979
 Odontomachus opaciventris|ASPAN180-10|MEKOU064591|Panama|BOLD:AAP2979
 Odontomachus opaciventris|APREY764-18|PH_EV76_od_1_04|Costa Rica|BOLD:ADK1059
 Odontomachus opaciventris|APREY944-18|EV49Otop|Costa Rica
 Odontomachus yucatecus|ASLAM921-11|CASENT0615349|Honduras|BOLD:ACE6448
 Odontomachus yucatecus|ASLAM969-11|CASENT0617294|Honduras|BOLD:ACE6448
 Odontomachus yucatecus|ASLAM1017-11|CASENT0617342|Honduras|BOLD:ACE6448
 Odontomachus yucatecus|ASLAM079-07|JTLCO00010095|Mexico|BOLD:AAK3197
 Odontomachus yucatecus|ASLAM2212-12|CASENT0624010|Nicaragua|BOLD:ABX1809
 Odontomachus yucatecus|ASLAM2358-12|CASENT0627706|Nicaragua|BOLD:ABX1809
 Odontomachus yucatecus|ASLAM500-11|CASENT0612061|Honduras|BOLD:ACE6446
 Odontomachus yucatecus|ASLAM1884-12|CASENT0624912|Nicaragua|BOLD:ACE6446
 Odontomachus yucatecus|ASLAM1564-11|CASENT0619798|Nicaragua|BOLD:ACE6446
 Odontomachus yucatecus|ASLAM1935-12|CASENT0624963|Nicaragua|BOLD:ACE6446
 Odontomachus yucatecus|ASLAM1211-11|CASENT0617999|Honduras|BOLD:ACE6447
 Odontomachus yucatecus|ASLAM1404-11|CASENT0618799|Honduras|BOLD:ACE6447
 Odontomachus yucatecus|ASLAM1405-11|CASENT0618800|Honduras|BOLD:ACE6447
 Odontomachus yucatecus|ASLAM2035-12|CASENT0625219|Honduras|BOLD:ACE6447
 Odontomachus laticeps|ASLAM391-11|CASENT0615105|Honduras|BOLD:ACF5871
 Odontomachus laticeps|ASLAM501-11|CASENT0612063|Honduras|BOLD:ACF5871
 Odontomachus laticeps|ASLAM430-11|CASENT0612186|Honduras|BOLD:ACF5871
 Odontomachus laticeps|ASLAM2085-12|CASENT0625269|Honduras|BOLD:ABZ0688
 Odontomachus laticeps|ASLAM1257-11|CASENT0618405|Honduras|BOLD:ACE6450
 Odontomachus laticeps|ASLAM1335-11|CASENT0618730|Honduras|BOLD:ACE6450
 Odontomachus laticeps|ASLAM968-11|CASENT0617293|Honduras|BOLD:ACE6450
 Odontomachus laticeps|ASLAM1380-11|CASENT0618775|Honduras|BOLD:ACE6450
 Odontomachus laticeps|ASLAM1930-12|CASENT0624958|Nicaragua|BOLD:AAE2427
 Odontomachus laticeps|ASLAM1934-12|CASENT0624962|Nicaragua|BOLD:AAE2427
 Odontomachus laticeps|ASLAM1782-12|CASENT0613709|Nicaragua|BOLD:AAE2427
 Odontomachus laticeps|ASLAM1927-12|CASENT0624955|Nicaragua|BOLD:AAE2427
 Odontomachus laticeps|ASLAM1970-12|CASENT0624998|Nicaragua|BOLD:AAE2427
 Odontomachus laticeps|ASLAM1336-11|CASENT0618731|Honduras|BOLD:AAE2427
 Odontomachus laticeps|ASLAM1381-11|CASENT0618776|Honduras|BOLD:AAE2427
 Odontomachus laticeps|ASLAM1868-12|CASENT0624896|Honduras|BOLD:AAE2427
 Odontomachus laticeps|ASLAM2082-12|CASENT0625266|Honduras|BOLD:AAE2427

identified via adult specimen - see image of EV49Otop on BOLD



identified via adult specimens - see images of EV36Oder, EV33Ode, PHEcOder on BOLD



Supplemental tree 2. RAxML tree based on GTR Gamma as nucleotide model of prey COI barcodes. Given at tips are sample IDs, collection event (raiding/emigration/prey cache) and assigned species name. Prey samples assigned to a single species are highlighted in color. Bootstrap support values (1,000 replicates) are given at major nodes. The army ant-associated beetle *Vatesus* cf. *clypeatus* sp. 2 served as outgroup. The scale bar represents expected substitutions per site as inferred by the RAxML algorithm.

