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	Comamonadaceae bacterium UBA2121 (GCA_002331385.1) Alicycliphilus sp. UBA7619 (GCA_002484205.1) Alcidovoras sp. MR-S7 (GCA_000400995.2) —Achromobacter agilis (GCA_900496965.1) Achromobacter denitrificaris (GCA_003938995.1) Achromobacter denitrificaris (GCA_002192685.1) Achromobacter denitrificaris (GCA_002192685.1) Achromobacter denitrificaris (GCA_00194585.1) Achromobacter denitrificaris (GCA_00194585.1) Achromobacter denitrificaris (GCA_001945385.1) Achromobacter denitrificaris (GCA_000974745.1) Bordetella bronchiseptica (GCA_000974745.1)	
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	Marinobacter sp. F3R11 (GCA_003318275.1) Bordetella genomosp. 13 (GCA_00219665.1) Bordetella pertii J51 (GCA_000519965.1) Bordetella genomosp. 26 (GOZ261345.1) Verticiella sediminum (GCA_007558815.1) Rhodobacteraceae bacterium WD3A24 (GCA_002967695.1) Tranquillimonas sp. KM-1 (GCA_000248975.2) Halomonas sp. WRN001 (GCA_002286975.1) Pararhodobacter sp. 20420 (GCA_003990445.1)	
	natronospirilum operossus (GCA_004768465.1) —Saccharospirilum inperossus (GCA_004768465.1) —Pandoraea p. CB10b_02 (GCA_002216225.1) i. Pandoraea pulmonicola (GCA_000181505.2) Pandoraea pulmonicola (GCA_000181505.2) Pandoraea p. Sb6.2 (GCA_000389825.1) i. Pandoraea apista (GCA_000162765.1) Pandoraea apista (GCA_001010788.2) Pandoraea apista (GCA_00101788.2) Pandoraea apista (GCA_00101788.2) Pandoraea apista (GCA_00101788.2) Pandoraea apista (GCA_00101788.2)	
	Pandoraea apista (GCA_002238015.1) Pandoraea apista (GCA_003937325.1) Pandoraea apista (GCA_003937325.1) Pandoraea apista (GCA_003937325.1) Pandoraea apista (GCA_003936875.1) Pandoraea apista (GCA_00394635.1) Pandoraea apista (GCA_003986045.1) Pandoraea apista (GCA_003985085.1) Pandoraea apista (GCA_003937835.1) Pandoraea apista (GCA_003937845.1) Pandoraea apista (GCA_003937845.1) Pandoraea apista (GCA_00393785.1) Pandoraea apista (GCA_00393785.1) Pandoraea apista (GCA_00393785.1)	
	Pandoraea apista (GCA_003985075.1) Pandoraea apista (GCA_003985075.1) Pandoraea apista (GCA_003985065.1) Paraburkholderia monticola (GCA_001580545.1) Paraburkholderia pheliela NBRC 101317 (GCA_000739775.1) Burkholderia pheliela NBRC 101317 (GCA_00131485.1) Burkholderia pheliela NBRC 101317 (GCA_001526365.1) Burkholderia pheliela NBRU1078WCS (GCA_001526365.1) Burkholderia pheliela NBRU1078WCS (GCA_001534055.1) Burkholderia pheliela NBRU1078WCS (GCA_001534055.1) Burkholderia pheliela pheliela NBRU1078WCS (GCA_001534055.1) Burkholderia pheliela pheliela NBRU1078WCS (GCA_001530725.1) Burkholderia territorii (GCA_001530765.1)	
	Paraburkholderia sp. UYCP14C (GCA_004197395.1) Paraburkholderia sp. JPY251 (GCA_000372985.1) Burkholderia cepacia (GCA_000974835.2) Burkholderia dolosa (GCA_00097185.1) Burkholderia dolosa (GCA_003813045.1) Burkholderia sp. AU1277 (GCA_002981105.1) Burkholderia dolosa AU0158 (GCA_000959505.1) Burkholderia dolosa AU0158 (GCA_000152585.1) Burkholderia cenocepacia MCO-3 (GCA_000019505.1) Burkholderia cenocepacia (GCA_003854095.1) Burkholderia cenocepacia (GCA_003938685.1)	
	Burkholderia cencepacia (GCA_003854055.1) Burkholderia cencepacia (GCA_003876415.1) Burkholderia cencepacia (GCA_003876415.1) Burkholderia cencepacia (GCA_003876415.1) Burkholderia cencepacia (GCA_00281045.1) Burkholderia cencepacia (GCA_00281045.1) Burkholderia cencepacia (GCA_003854675.1) Burkholderia cencepacia (GCA_003854675.1) Burkholderia cencepacia (GCA_000183555.2) Burkholderia cencepacia (GCA_000183555.2) Burkholderia cencepacia (GCA_000139555.1) Burkholderia cencepacia (GCA_0003854765.1) Burkholderia cencepacia (GCA_003854765.1) Burkholderia cencepacia (GCA_003654765.1)	
	Burkholderia cenocepacia (GCA_001276275.1) Burkholderia cenocepacia (GCA_001894125.1) Burkholderia cenocepacia (GCA_001894125.1) Burkholderia cenocepacia (GCA_001899825.1) Burkholderia cenocepacia (GCA_002007585.1) Burkholderia cenocepacia (GCA_00000915.1) Burkholderia cenocepacia (GCA_00000915.1) Burkholderia cenocepacia (GCA_000854725.1) Burkholderia cenocepacia (GCA_003854675.1) Burkholderia cenocepacia (GCA_003854655.1) Burkholderia cenocepacia (GCA_0008955455.1) Burkholderia cenocepacia (GCA_000889555.1) Burkholderia cenocepacia (GCA_000889555.1)	
	Burkholderia cenocepacia (GCA_001992705.1) Burkholderia cenocepacia (GCA_003854115.1) Burkholderia cenocepacia (GCA_003854415.1) Burkholderia cenocepacia (GCA_00385485.1) Paraburkholderia senocepacia (GCA_00385485.1) Paraburkholderia sp. KK1 (GCA_001988975.1) Paraburkholderia sp. KK1 (GCA_001988975.1) Paraburkholderia sp. KK1 (GCA_002902965.1) Paraburkholderia hospita (GCA_00202965.1) Paraburkholderia hospita (GCA_0016255.1) Paraburkholderia terricola (GCA_0012155.1) Cupriavidus pinatubonensis JMP134 (GCA_000203875.1)	
	Cupriavidus sp. JdFR-90 (GCA_002010805.1) Pandoraea sp. ISTKB (GCA_001721285.1) Paraburkholderia caballeronis (GCA_004368085.1) Paraburkholderia caballeronis (GCA_004368045.1) Paraburkholderia caballeronis (GCA_004368045.1) Paraburkholderia caballeronis (GCA_004368795.1) Paraburkholderia caballeronis (GCA_0030104845.1) Paraburkholderia caballeronis (GCA_00301085.1) Paraburkholderia caballeronis (GCA_003201435.1) Paraburkholderia caballeronis (GCA_003201435.1) Paraburkholderia caballeronis (GCA_0032019875.1) Paraburkholderia caballeronis (GCA_00005675.1)	
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	Variovorax paradoxus (GCA_001026885.1)	
	Variovorax paradoxus (GCA_001399595.1) Variovorax sp. W1810200 (GCA_000620225.1) Variovorax sp. W216 (GCA_000107745.1) Variovorax sp. W511 (GCA_003014875.1) Variovorax sp. WDL1 (GCA_001541225.1) Variovorax sp. B2 (GCA_002891955.1) Variovorax sp. B4 (GCA_002891725.1) Betaproteobacteria (2582580700) Hylemonella sp. UBA2652 (GCA_002359555.1) Burkholderiales bacterium (GCA_005804685.1)	
	Burkholderiales bacterium (GCA_005800875.1)	
	Betaproteobacteria (K_O05776565.1) Hydrogenophaga sp. PBC (GCA_000263795.2) Hydrogenophaga sp. PMLI13 (GCA_001777155.1) Hydrogenophaga sp. PMLI13 (GCA_001777155.1) Hydrogenophaga sp. PMLI13 (GCA_001777155.1) Hydrogenophaga sp. PMLI13 (GCA_001724835.1) Betaproteobacteria (K_Offshore_120m_m2_141) Rhodoplial globiformis (GCA_00287115.1) Acetobacteraceae bacterium (BCA_003506895.1) Acetobacteraceae bacterium (GCA_003506895.1) Rhodospirillaceae bacterium (GCA_002696205.1) Magnetovibrio sp. (GCA_002696715.1) Rhodospirillaceae bacterium (GCA_003510025.1) Rhodospirillaceae bacterium (GCA_003510025.1)	
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	Sphingomonas panacis (GCA_00171795.1)	
	Sphingobium fuliginis (GCA_004152465.1) Sphingobium fuliginis (GCA_002723855.1) Sphingobium sp. SA916 (GCA_0022894066.1) Sphingobium sp. SA916 (GCA_002894066.1) Sphingobium sp. Ndbn-10 (GCA_001699185.1) Betaproteobacteria (K_Offsbore_80m_m2_113) Rhodospirillales bacterium (GCA_003151425.1) Acetobacteraceae bacterium (GCA_003151425.1) Acetobacteraceae bacterium (GCA_003163115.1) Deltaproteobacteria bacterium (GCA_002894675.1) SA8324 cluster baum (GCA_00269675.1)	
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	Roseomonas sp. CQN31 (GCA_003173615.1) Roseomonas sp. AR75 (GCA_005222815.1) Alphaproteobacteria (K_Offshore_40m_mx_120) Alphaproteobacteria (M_DeepCast_200m_m2_174) Alphaproteobacteria (M_GCA_005786825.1) Alphaproteobacteria (M_GCA_005786825.1) Alphaproteobacteria (M_GCA_005786825.1) Alphaproteobacteria bacterium (GCA_005804215.1) Alphaproteobacteria bacterium (GCA_005804215.1) Alphaproteobacteria (K_Offshore_80m_m2_107) Alphaproteobacteria (K_Offshore_80m_m2_051) Alphaproteobacteria (K_Offshore_30m_m1_317) Alphaproteobacteria (K_Offshore_50m_m1_317) Alphaproteobacteria (K_Offshore_50m_m2_1317)	
	Rhodospirillales bacterium URHD0088 (GCA_000518365.1) Rhodospirillaceae bacterium SYSU B600015 (GCA_003576705.1) Alphaproteobacteria (K_Offshore_80m_m2_081) Alphaproteobacteria (K_Offshore_surface_m1_194) Acidisphaera rubrifaciems HS-AP3 (GCA_000964365.1) Stella sp. ATCC 35155 (GCA_006738865.1) Stella vacuolata (GCA_006739055.1) Stella humosa (GCA_006739055.1) Stella humosa (GCA_006739055.1) Acidiferrobacteraceae bacterium (GCA_002725835.1) Acidiferrobacteraceae bacterium (GCA_002725835.1)	
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	Tardiphaga sp. OKZ46 (GCA_900188215.1)	
	Flardyrhizobium valentinum (GCA_001440385.1) Bradyrhizobium sp. JGI 0001002-A22 (GCA_000464155.2) Bradyrhizobium algeriense (GCA_003062295.1) Bradyrhizobium jacamae (GCA_001440475.1) Bradyrhizobium jicamae (GCA_001440395.1) Bradyrhizobium erythrophiel (GCA_900129425.1) Bradyrhizobium erythrophiel (GCA_900129425.1) Bradyrhizobium brythrophiel (GCA_00582475.1) Alphaproteobacteria bacterium (GCA_005882475.1) Alphaproteobacteria bacterium (GCA_005882475.1) Bradyrhizobium sp. Urstradia (GCA_001464035.1) Bradyrhizobium sp. (GCA_004799405.1) Bradyrhizobium sp. (GCA_004799405.1)	
	### Bradyhizobium sp. URHD0069 (GCA_000701345.1) Bradyhizobium retamae (GCA_001440415.1) Bradyhizobium en LMTR 3 (GCA_0014693485.1) Bradyhizobium en lekani WSM1741 (GCA_000472965.1) Bradyhizobium en lekani WSM1741 (GCA_000472965.1) Bradyhizobium en lekani WSM1741 (GCA_000472965.1) Bradyhizobium en lekani WSM1741 (GCA_000323045.1) Bradyhizobium en lehani (GCA_000232045.1) Bradyhizobium en lehani (GCA_0005189695.1) Bradyhizobium en lehani (GCA_0005189695.1) Bradyhizobium en lehani USDA 94 (GCA_00051825.1) Bradyhizobium en lehani USDA 94 (GCA_0005185.1) Bradyhizobium pachyhizi (GCA_01189245.1)	
	Bradyrhizobium elkanii USDA 3259 (GCA_000473005.1) Bradyrhizobium elkanii USDA 3254 (GCA_000473005.1) Bradyrhizobium elkanii USDA 3254 (GCA_000472765.1) Bradyrhizobium sp. ELA GCA_90010405.1) Bradyrhizobium sp. ELA GOA_3211 (GCA_00169825.1) Bradyrhizobium pachyrhizi (GCA_00144015.1) Bradyrhizobium elkanii (GCA_00144015.1) Bradyrhizobium elkanii (GCA_001718205.1) Bradyrhizobium elkanii (GCA_001718205.1) Bradyrhizobium elkanii (GCA_001718185.1) Bradyrhizobium elkanii (GCA_001888735.1) Bradyrhizobium elkanii (GCA_000188735.1) Bradyrhizobium elkanii (GCA_000188735.1) Bradyrhizobium elkanii (GCA_00053965.2) Bradyrhizobium elkanii (GCA_00053965.1) Bradyrhizobium elkanii (GCA_00653965.1)	
	Bradyrhizobium elkanii (GCA, 006539665.1) Bradyrhizobium elkanii (GSA) (GCA, 000379145.1) Bradyrhizobium elkanii (GCA, 004152955.1) Bradyrhizobium macuxiense (GCA, 0014542415.1) Bradyrhizobium macuxiense (GCA, 001942415.1) Bradyrhizobium sp. LTSP885 (GCA, 000938305.1) Bradyrhizobium sp. TSPM299 (GCA, 000938325.1) Bradyrhizobium mercantei (GCA, 001982635.1) Bradyrhizobium tropiciagri (GCA, 001982635.1) Bradyrhizobium tropiciagri (GCA, 001189845.1) Bradyrhizobium stropiciagri (GCA, 00198235.1) Bradyrhizobium sp. usp. ans36.2 (GCA, 00198235.1) Bradyrhizobium sp. usp. ans36.2 (GCA, 00198235.1) Bradyrhizobium sp. usp. ans36.2 (GCA, 00198235.1)	
	Bradyrhizobium sp. OHSU_III (GCA_000497675.1) Bradyrhizobium elkanii (GCA_000497675.1) Bradyrhizobium sp. UASWS1016 (GCA_001705105.1) Bradyrhizobium sp. UASWS1016 (GCA_001705105.1) Bradyrhizobium sp. C1-18 (GCA_00069605.2) Bradyrhizobium sp. C1-18 (GCA_000696075.2) Bradyrhizobium sp. PARBB1 (GCA_002256335.1) Bradyrhizobium sp. DFCI-1 (GCA_000465325.1) Bradyrhizobium sp. GCA_003476985.1) Bradyrhizobium sp. GCA_003476985.1) Bradyrhizobium sp. MGOA_06CA_003020075.1) Bradyrhizobium sp. MGOA_0CA_003020075.1) Bradyrhizobium sp. MGOA_0CA_003020075.1)	
	Bradyrhizobium sp. Aila-2 (GCA_00042645.1)	
	### Bradyrhizobium sp. naS80.1 (GCA_001908205.1) ### Bradyrhizobium sp. 58S1 (GCA_007290395.1) ### Bradyrhizobium sp. S23321 (GCA_000284275.1) ### Bradyrhizobium sp. RP6 (GCA_00038475.1) ### Bradyrhizobium sp. RP6 (GCA_003837805.1) ### Bradyrhizobium sp. ORS 3257 (GCA_900324035.1) ### Bradyrhizobium sp. BK707 (GCA_004216735.1) ### Bradyrhizobium isnoningense (GCA_001595995.1) ### Bradyrhizobium ilanoningense (GCA_001595995.1) ### Bradyrhizobium ilanoningense CGBAU 83689 (GCA_000261665.1) ### Bradyrhizobium ilanoningense CGBAU 83689 (GCA_000472945.1) ### Bradyrhizobium sp. BM-T (GCA_004343145.1) #### Bradyrhizobium sp. R2-2+4 (GCA_004346455.1)	
	Bradyrhizobium sp. R2.2·H (GCA_004346455.1) Bradyrhizobium sp. VHI (GCA_004346455.1) Bradyrhizobium sp. VHI (GCA_004346585.1) Bradyrhizobium setropicale (GCA_00141695.1) Bradyrhizobium sp. Cp5.3 (GCA_000426265.1) Bradyrhizobium sp. Cp5.3 (GCA_000426265.1) Bradyrhizobium sp. Cp5.3 (GCA_0004164975.1) Bradyrhizobium guangdongense (GCA_004114975.1) Bradyrhizobium sp. Ghvi (GCA_000115265.1) Bradyrhizobium genosp. SA-4 str. CB756 (GCA_00473125.1) Bradyrhizobium arachidis (GCA_00017685.1) Bradyrhizobium arachidis (GCA_0001675.1) Bradyrhizobium sarchidis (GCA_0001675.1) Bradyrhizobium sp. USDA 3456 (GCA_0001675.1)	
	I Bradyrhizobium sp. CNPSo 3426 (GCA_004570865.1) Bradyrhizobium guangdnouense (GCA_008483445.1) Bradyrhizobium guangdnouense (GCA_00414475.1) Bradyrhizobium guangdnouense (GCA_004114475.1) Bradyrhizobium guangdnouense (GCA_004114455.1) Bradyrhizobium sp. CNPSo 3424 (GCA_004571045.1) Bradyrhizobium sp. CNPSo 3424 (GCA_004571045.1) Bradyrhizobium sp. LNPA54B (GCA_002795245.1) Bradyrhizobium sp. DNA1 (GCA_001593325.1) Bradyrhizobium sp. DOA1 (GCA_000296215.2) Bradyrhizobium sp. ADA1 (GCA_001590395.1) Bradyrhizobium sp. ADA1 (GCA_001590795.1) Bradyrhizobium sp. ADA1 (GCA_001590795.1) Bradyrhizobium sp. DA1 (GCA_00067845.2) Bradyrhizobium sp. DA1 (GCA_00067845.2) Bradyrhizobium sp. DA1 (GCA_00067845.2)	
	Bradyrhizobium yuanmingense (GCA_004022285.3) Bradyrhizobium yuanmingense (GCA_004022285.3) Bradyrhizobium yuanmingense (GCA_001439885.1) Bradyrhizobium yuanmingense (GCA_000043785.1) Bradyrhizobium yuanmingense (CGA_000044575.1) Bradyrhizobium yuanmingense CCBAU_25021 (GCA_000261805.1) Bradyrhizobium yuanmingense CCBAU_25021 (GCA_000261825.1) Bradyrhizobium sp. SUTN9-2 (GCA_003122645.1) Bradyrhizobium sp. UNPA324 (GCA_00658635.1) Bradyrhizobium nanningense (GCA_004114585.1) Bradyrhizobium nanningense (GCA_004114585.1) Bradyrhizobium japonicum 22 (GCA_000482425.1) Bradyrhizobium japonicum 22 (GCA_000482455.1) Bradyrhizobium japonicum 22 (GCA_00048275.1)	
	Bradyrhizobium sp. Y36 (GCA, 002531575.1) Bradyrhizobium sp. TSA1 (GCA, 002776695.1) Bradyrhizobium sp. TSA1 (GCA, 002776695.1) Bradyrhizobium sp. MOS003 (GCA, 003079585.1) Bradyrhizobium sp. WSM2793 (GCA, 003079585.1) Bradyrhizobium sp. RC3b (GCA, 900114915.1) Bradyrhizobium sp. RC3b (GCA, 900114915.1) Bradyrhizobium sp. CCBAU 15635 (GCA, 00226145.1) Bradyrhizobium sp. CCBAU 15635 (GCA, 00226145.1) Bradyrhizobium sp. (GCA, 003086975.1) Bradyrhizobium sp. (GCA, 003986975.1) Bradyrhizobium sp. (GCA, 00389675.1) Bradyrhizobium sp. CCBAU 15636, GCA, 00278135.2) Bradyrhizobium ottawaense (GCA, 00278135.2) Bradyrhizobium ottawaense (GCA, 00278135.2) Bradyrhizobium ottawaense (GCA, 00278135.2) Bradyrhizobium sp. CCBAU 15615 (GCA, 003061725.1)	
	Bradyrhizobium sp. CNPSo 3448 (GCA_004571025.1) Bradyrhizobium sp. WSM224 (GCA_004671025.1) Bradyrhizobium diazoefficiens (GCA_001546965.1) Bradyrhizobium diazoefficiens (GCA_001546965.1) Bradyrhizobium diazoefficiens (GCA_001508315.1) Bradyrhizobium diazoefficiens (GCA_00150835.1) Bradyrhizobium diazoefficiens (GCA_00128085.1) Bradyrhizobium diazoefficiens (GCA_000283195.1) Bradyrhizobium diazoefficiens (GCA_000353955.1) Bradyrhizobium diazoefficiens (GCA_004589355.1) Bradyrhizobium diazoefficiens (GCA_00138346.1) Bradyrhizobium diazoefficiens (GCA_001363836.1) Bradyrhizobium diazoefficiens (GCA_00136386.1) Bradyrhizobium diazoefficiens (GCA_00136176.1) Bradyrhizobium diazoefficiens (GCA_00136176.1)	
	Bradyrhizobium sp. YR681 (GCA_000261765.1) Bradyrhizobium sp. YR681 (GCA_000261765.1) Bradyrhizobium sp. WSM3983 (GCA_000475045.1) Bradyrhizobium japonicum CCBAU 15354 (GCA_000261545.1) Bradyrhizobium japonicum CCBAU 15517 (GCA_000261565.1) Bradyrhizobium japonicum CCBAU 15517 (GCA_000261565.1) Bradyrhizobium japonicum CCBAU 83623 (GCA_000261525.1) Bradyrhizobium japonicum (GCA_002108935.1) Bradyrhizobium japonicum (GCA_002108935.1) Bradyrhizobium japonicum (GCA_002108956.1) Bradyrhizobium japonicum (GCA_0021087695.1) Bradyrhizobium japonicum (GCA_0021087695.1) Bradyrhizobium japonicum SEMIA 5079 (GCA_000661935.1) Bradyrhizobium japonicum SEMIA 5079 (GCA_000661935.1) Bradyrhizobium japonicum CCBAU 15618 (GCA_000261585.1)	
	Bradyrhizobium japonicum CCBAU 15618 (GCA_000261585.1) Bradyrhizobium japonicum (GCA_000773665.1) Bradyrhizobium japonicum (USDA 38 (GCA_000472745.1) Bradyrhizobium japonicum (USDA 38 (GCA_000472745.1) Bradyrhizobium japonicum (USDA 6 (GCA_000472985.1) Bradyrhizobium japonicum (GCA_00087315.1) Bradyrhizobium japonicum (GCA_00087315.1) Bradyrhizobium japonicum (GCA_00083185.1) Bradyrhizobium japonicum (GCA_00083865.1) Bradyrhizobium japonicum (GCA_000659685.1) Bradyrhizobium japonicum (GCA_000659685.1) Bradyrhizobium sp. CCHS-F6 (GCA_001556045.1) Bradyrhizobium sp. 3 (GCA_000459165.1) Bradyrhizobium sp. 3 (GCA_000459165.1)	
	**Brady/hizobium sp. 3 8551MB (GCA_002266465.2) **Brady/hizobium sp. MCS002 (GCA_003020115.1) **Brady/hizobium sp. (GCA_900011245.1) **Brady/hizobium sp. WSM471 (GCA_000244915.1) **Brady/hizobium sp. WSM4349 (GCA_000518345.1) **Brady/hizobium ap. WSM4349 (GCA_000373125.1) **Brady/hizobium canariense (GCA_002108995.1) **Brady/hizobium canariense (GCA_002108995.1) **Brady/hizobium canariense (GCA_002108905.1) **Brady/hizobium canariense (GCA_002108805.1) **Brady/hizobium canariense (GCA_002108865.1) **Brady/hizobium canariense (GCA_002108845.1) **Brady/hizobium canariense (GCA_002108845.1)	