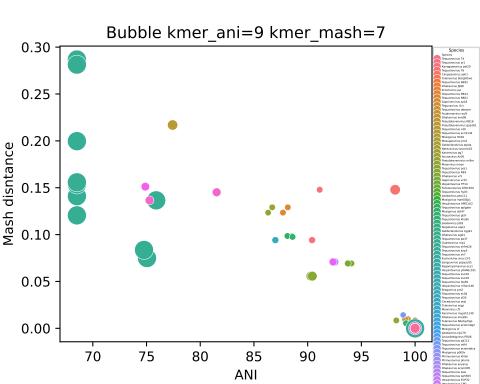
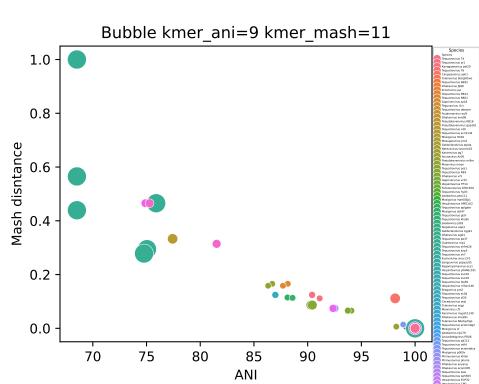
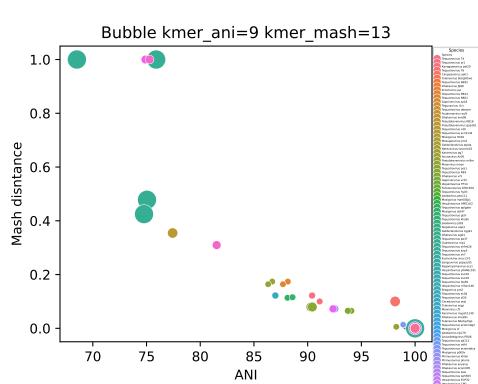


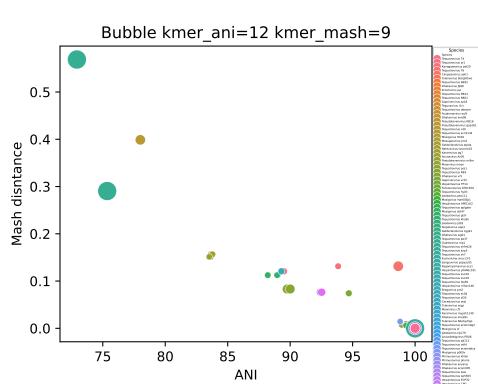
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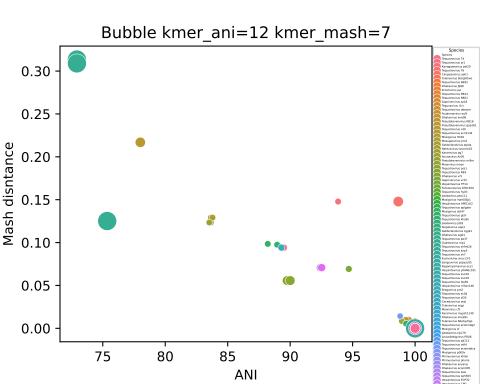


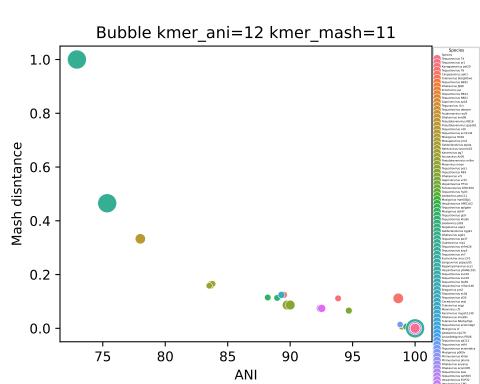


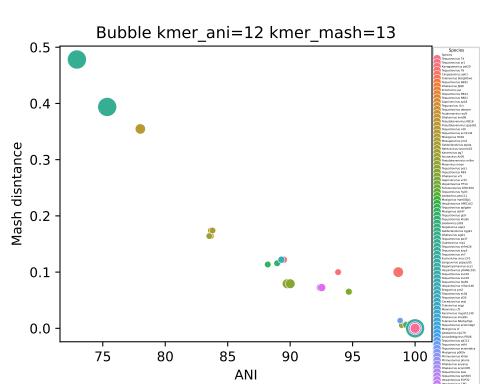


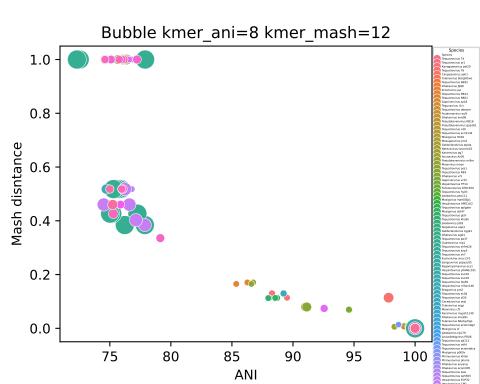
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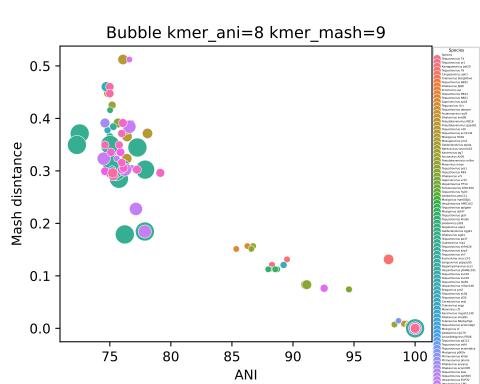


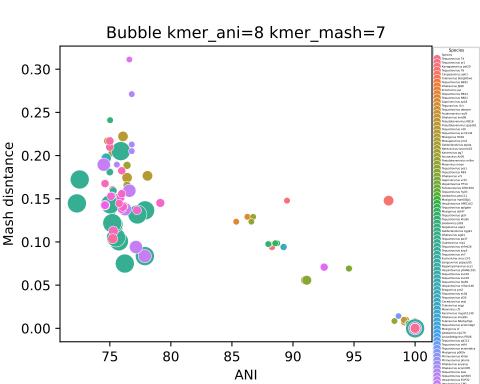


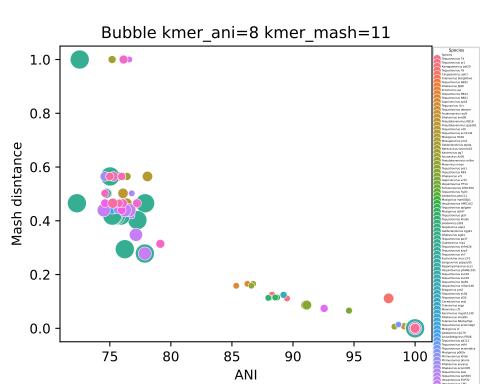


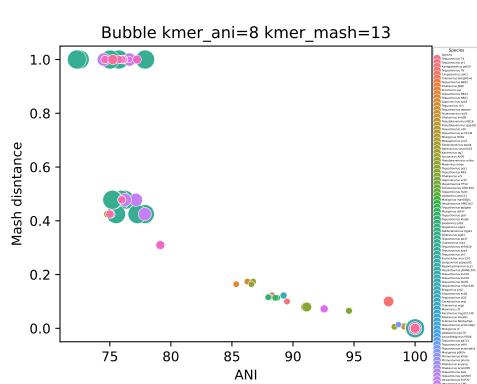


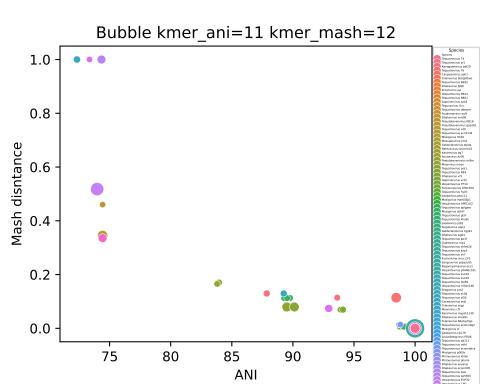


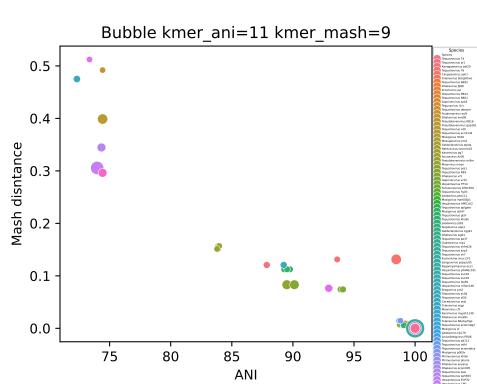


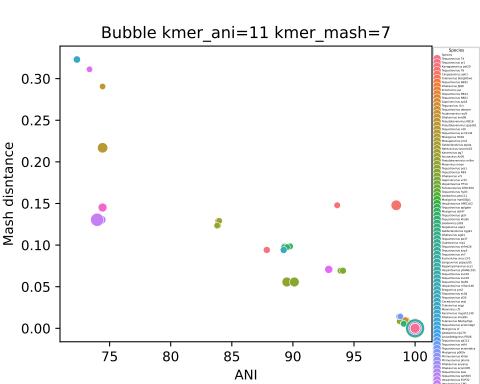


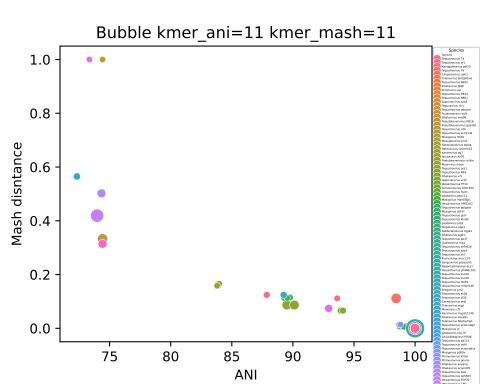


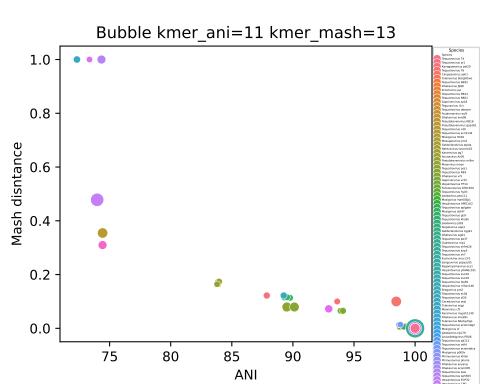




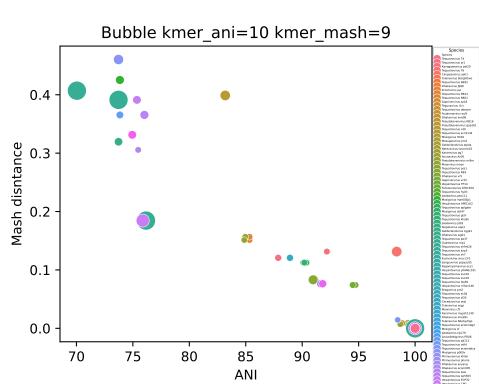








Bubble kmer ani=10 kmer mash=12 Species 1.0 Tequatrovirus T4 Tequatrovirus arl Kanagamavirus pei20 Cingassovirus aeh1 Tulanevirus bteighttwo Tequatrovinus RB32 Dhakavirus 1998 Tequatrovirus RB14 Gagrivervirus sp18 Tegunavirus rirt 8.0 Tequatrovirus decone Acajnonavirus acj9 Dhakavirus ime68 Pseudotevenvirus RB16 Pseudotevenvirus gap161 Tequatrovirus ecm/134 Moskovirus HXXXI Mosugukvirus pm2 Mash disntance Gelderlandvirus stp4a Nereusvirus tusconcé) 0.6 Tequatrovinus BR3 Dhakavirus vr5 Gaprivervirus vr25 Veguintavirus TP14 Felixounavirus AY0145A Tequatrovirus hyd3 Figodavirus pko111 Mosigvirus mar005p Veguintavirus APECc02 Mosigvirus atk47 0.4 Faodavirus kt18 Spoekvirus eap? Gelderlandvirus cop41 Dhakavirus wo01 Tequatrovirus pe37 Gualtarvirus mp1 Tequatrovirus shfml26 Jiangsuvirus pspyzu05 Kagamiyamavirus ecs1 0.2 Vequintavirus ph/Wec191 Tequatrovirus slur02 Tequatrovirus slur03 Tequatrovirus (ps65) Veguintavirus rVSev146 Bragavirus pm2 Tequatrovirus ec04 Cecedupvirus anzi Tulanevirus asgz Karamvirus mypsh1140 Dhakavirus ime281 Talanevirus 60 abydrop 0.0 Tequatrovirus ecomobg2 Mosigyirus sf Figodavirus kp179 Justusliebigvirus PD06 Tequatrovirus pd112 Tequatrovirus mil4 70 75 80 85 95 100 Mosigvirus p000v 90 Dhakavirus anyang Dhakavirus ecom005 ANI Tequatrovirus kase Tequatrovirus pe5505



Bubble kmer ani=10 kmer mash=7 Species Tequatrovirus T4 Tequatrovirus arl Kanagamavirus pei20 Cingassovirus aeh1 Tulanevirus bteighttwo Tequatrovinus RB32 Dhakavirus 1998 0.20 Tequatrovirus RB14 Gagrivervirus sp18 Tegunavirus rirt Tequatrovirus decone Acajnonavirus acj9 Dhakavirus ime68 Pseudotevenvirus RB16 Pseudotevenvirus gap161 Tequatrovirus ecm/134 Moskovirus HXXXI Mosugukvirus pm2 Mash disntance Gelderlandvirus stp4a 0.15 Nereusvirus tusconcé) Tequatrovinus BR3 Dhakavirus vr5 Gagrivervirus vr25 Veguintavirus TP14 Felixounavirus AY0145A Tequatrovirus hyd3 Figodavirus pko111 Mosigvirus mar005p Veguintavirus APECc02 0.10 -Mosigvirus atk47 Faodavirus kt18 Spoekvirus eap? Gelderlandvirus cop41 Dhakavirus wo01 Tequatrovirus pe37 Gualtarvirus mp1 Tequatrovirus shfml26 Jiangsuvirus pspyzu05 0.05 Kagamiyamavirus ecs1 Vequintavirus ph/Wec191 Tequatrovirus slur02 Tequatrovirus slur03 Tequatrovirus (ps65) Veguintavirus rVSev146 Bragavirus pm2 Tequatrovirus ec04 Cecedupvirus anzi Tulanevirus asgz Karamvirus mypsh1140 Dhakavirus ime281 Talanevirus 60 abydrop 0.00 Tequatrovirus ecomobg2 Mosigyirus sf Figodavirus kp179 Justusliebigvirus PD06 Tequatrovirus pd112 70 80 85 100 Mosigvirus p000v 90 95 Dhakavirus anyang Dhakavirus ecom005 ANI Tequatrovirus kase Tequatrovirus pe5505

Bubble kmer ani=10 kmer mash=11 Species 1.0 Tequatrovirus T4 Tequatrovirus arl Kanagamavirus pei20 Cingassovirus aeh1 Tulanevirus bteighttwo Tequatrovinus RB32 Dhakavirus 1998 Tequatrovirus RB14 Gagrivervirus sp18 Tegunavirus rirt 8.0 Tequatrovirus decone Acajnonavirus acj9 Dhakavirus ime68 Pseudotevenvirus RB16 Pseudotevenvirus gap161 Tequatrovirus ecm/134 Moskovirus HXXXI Mosugukvirus pm2 Mash disntance Gelderlandvirus stp4a Nereusvirus tusconcé) 0.6 Tequatrovinus BR3 Dhakavirus vr5 Gagrivervirus vr25 Veguintavirus TP14 Felixounavirus AY0145A Tequatrovirus hyd3 Figodavirus pko111 Mosigvirus mar005p Veguintavirus APECc02 Mosigvirus atk47 0.4 Faodavirus kt18 Spoekvirus eap? Gelderlandvirus cop41 Dhakavirus wo01 Tequatrovirus pe37 Gualtarvirus mp1 Tequatrovirus shfml26 Tequatrovirus knp5 Jiangsuvirus pspyzu05 Kagamiyamavirus ecs1 0.2 Vequintavirus ph/Wec191 Tequatrovirus slur02 Tequatrovirus slur03 Tequatrovirus (ps65) Veguintavirus rVSev146 Bragavirus pm2 Tequatrovirus ec04 Cecedupvirus anzi Tulanevirus asgz Karamvirus mypsh1140 Dhakavirus ime281 Talanevirus 60 abydrop 0.0 Tequatrovirus ecomobg2 Mosigyirus sf Figodavirus kp179 Justusliebigvirus PD06 Tequatrovirus pd112 Tequatrovirus mil4 70 75 80 85 95 100 Mosigvirus p000v 90 Dhakavirus anyang Dhakavirus ecom005 ANI Tequatrovirus kase Tequatrovirus pe5505

Bubble kmer ani=10 kmer mash=13 Species 1.0 Tequatrovirus T4 Tequatrovirus arl Kanagamavirus pei20 Cingassovirus aeh1 Tulanevirus bteighttwo Tequatrovinus RB32 Dhakavirus 1998 Tequatrovirus RB14 Gagrivervirus sp18 Tegunavirus rirt 8.0 Tequatrovirus decone Acajnonavirus acj9 Dhakavirus ime68 Pseudotevenvirus RB16 Pseudotevenvirus gap161 Tequatrovirus ecm/134 Moskovirus HXXXI Mosugukvirus pm2 Mash disntance Gelderlandvirus stp4a Nereusvirus tusconcé) 0.6 Tequatrovinus BR3 Dhakavirus vr5 Gagrivervirus vr25 Veguintavirus TP14 Felixounavirus AY0145A Tequatrovirus hyd3 Figodavirus pko111 Mosigvirus mar005p Veguintavirus APECc02 Mosigvirus atk47 0.4 Faodavirus kt18 Spoekvirus eap? Gelderlandvirus cop41 Dhakavirus wo01 Tequatrovirus pe37 Gualtarvirus mp1 Tequatrovirus shfml26 Jiangsuvirus pspyzu05 Kagamiyamavirus ecs1 0.2 Vequintavirus ph/Wec191 Tequatrovirus slur02 Tequatrovirus slur03 Tequatrovirus (ps65) Veguintavirus rVSev146 Bragavirus pm2 Tequatrovirus ec04 Cecedupvirus anzi Tulanevirus asgz Karamvirus mypsh1140 Dhakavirus ime281 Talanevirus 60 abydrop 0.0 Tequatrovirus ecomobg2 Mosigyirus sf Figodavirus kp179 Justusliebigvirus PD06 Tequatrovirus pd112 Tequatrovirus mil4 70 75 80 85 95 Mosigvirus p000v 90 100 Dhakavirus anyang Dhakavirus ecom005 ANI Tequatrovirus kase Tequatrovirus pe5505