

Supplementary Table 16 Bacteria species positively correlated with different post-COVID sequelae (P&lt;0.05, from linear mixed models in MaAsLin2).

Symptoms	Number of patients affected	Bacteria species positively correlated with PACS (P<0.05)
<b>Respiratory symptoms</b>		
Cough	9	Actinomyces_naeslundii Intestinibacter_bartlettii Actinomyces_oris Actinomyces_sp_ICM47 Actinomyces_odontolyticus Streptococcus_anginosus_group Streptococcus_vestibularis Streptococcus_gordonii Rothia_mucilaginosa Clostridium_disporicum Actinobaculum_sp_oral_taxon_183 Erysipelatoclostridium_amosum Veillonella_parvula Streptococcus_mutans Streptococcus_infantis Lactobacillus_mucosae Bifidobacterium_dentium Actinomyces_graevenitzi Olsenella_uli Faecalibacterium_pleomorphicus Blautia_producta Propionibacterium_acidifaciens Actinomyces_sp_oral_taxon_448 Pseudopropionibacterium_propionicum Actinomyces_massiliensis Actinomyces_sp_oral_taxon_897 Streptococcus_cristatus Actinomyces_sp_oral_taxon_414 Corynebacterium_durum
Sputum	13	
Nasal congestion/ runny nose	15	
Shortness of breath	18	
<b>Gastrointestinal symptoms</b>		
Nausea	3	Ruminococcus_gnavus Actinomyces_naeslundii Clostridium_innocuum Blautia_sp_CAG_257 Intestinibacter_bartlettii Eubacterium_limosum Actinomyces_odontolyticus Actinobaculum_sp_oral_taxon_183 Lactobacillus_salivarius Eisenbergiella_tayi
Diarrhoea	5	
Epi pain	6	
Abdominal pain	3	

		Erysipelatoclostridium_ramosum
<b>Neuropsychiatric symptoms</b>		
Headache	12	
Dizziness	9	Erysipelatoclostridium_ramosum
Loss of taste	5	Ruminococcus_gnavus
Loss of smell	9	Clostridium_innocuum
Difficulty in concentration	15	Actinomyces_sp_ICM47
Difficulty in sleeping	22	Intestinibacter_bartlettii
Anxiety	22	Actinomyces_naeslundii
Sadness	15	Actinomyces_oris
Poor memory	30	Bacteroides_vulgatus
Blurred vision	19	Actinomyces_odontolyticus
		Clostridium_bolteae
		Streptococcus_mutans
		Streptococcus_anginosus_group
		Rothia_mucilaginosa
		Streptococcus_gordonii
		Bacteroides_massiliensis
		Streptococcus_vestibularis
		Bifidobacterium_dentium
		Actinobaculum_sp_oral_taxon_183
		Streptococcus_infantis
		Clostridium_disporicum
		Blautia_producta
		Romboutsia_ilealis
		Actinomyces_sp_oral_taxon_448
		Actinomyces_sp_oral_taxon_414
		Olsenella_uli
		Corynebacterium_durum
		Actinomyces_massiliensis
<b>Dermatological symptoms</b>		
Hair loss	23	
		Intestinibacter_bartlettii
		Clostridium_innocuum
		Streptococcus_anginosus_group
		Eisenbergiella_massiliensis
		Hungatella_hathewayi
		Faecalitalea_cylindroides
		Eubacterium_limosum
		Bifidobacterium_dentium

		<p> <i>Clostridium_bolteae</i>  <i>Pseudoflavonifractor_sp_An184</i>  <i>Faecalicoccus_pleomorphus</i>  <i>Actinomyces_odontolyticus</i>  <i>Actinomyces_oris</i>  <i>Eisenbergiella_tayi</i>  <i>Lactonifactor_longoviformis</i>  <i>Firmicutes_bacterium_CAG_94</i>  <i>Olsenella_uli</i>  <i>Massiliomicrobiota_timonensis</i>  <i>Actinomyces_sp_oral_taxon_414</i> </p>
<b>Musculoskeletal symptoms</b>		
Joint pain	11	
Muscle pain	16	<p> <i>Intestinibacter_bartlettii</i>  <i>Hungatella_hathewayi</i>  <i>Streptococcus_anginosus_group</i>  <i>Clostridium_innocuum</i>  <i>Eubacterium_limosum</i>  <i>Actinomyces_oris</i>  <i>Ruminococcus_gnavus</i>  <i>Clostridium_bolteae</i>  <i>Bifidobacterium_dentium</i>  <i>Erysipelatoclostridium_amosum</i>  <i>Bacteroides_thetaiotaomicron</i>  <i>Actinomyces_odontolyticus</i>  <i>Streptococcus_mutans</i>  <i>Streptococcus_vestibularis</i>  <i>Eisenbergiella_tayi</i>  <i>Haemophilus_parainfluenzae</i>  <i>Eubacterium_callanderi</i>  <i>Streptococcus_infantis</i>  <i>Actinomyces_naeslundii</i>  <i>Blautia_producta</i>  <i>Olsenella_uli</i>  <i>Actinomyces_sp_oral_taxon_448</i>  <i>Rothia_mucilaginosa</i>  <i>Faecalicoccus_pleomorphus</i>  <i>Lactobacillus_mucosae</i>  <i>Actinomyces_sp_oral_taxon_414</i> </p>
Fatigue	32	
		<p> <i>Actinomyces_naeslundii</i>  <i>Clostridium_innocuum</i>  <i>Actinomyces_oris</i>  <i>Intestinibacter_bartlettii</i>  <i>Actinomyces_odontolyticus</i>  <i>Streptococcus_parasanguinis</i>  <i>Bifidobacterium_dentium</i>  <i>Erysipelatoclostridium_amosum</i>  <i>Streptococcus_anginosus_group</i> </p>

	<p>Megasphaera_micronuciformis Rothia_mucilaginosa Streptococcus_vestibularis Anaerostipes_caccae Streptococcus_gordonii Actinobaculum_sp_oral_taxon_183 Lactobacillus_mucosae Propionibacterium_acidifaciens Actinomyces_sp_oral_taxon_448 Olsenella_uli Streptococcus_infantis Actinomyces_sp_oral_taxon_414 Faecalibacterium_pleomorphicus Actinomyces_sp_oral_taxon_897 Lactobacillus_salivarius Actinomyces_massiliensis Corynebacterium_durum</p>
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