

Supplemental Tables and Figures

Table S1. Body sites and samples included in study

Body Site Symbol	Body Site	Body Region	Body Environment	Individuals	No. of Individuals	No. of Samples
Ac	Antecubital fossa	Arm	Moist	HV02, HV03, HV06, HV07, HV08, HV09, HV11, HV12	8	24
Al	Alar crease	Face	Sebaceous	HV01, HV02, HV03, HV04, HV05, HV08, HV09, HV10, HV11, HV12	10	30
Ba	Back	Torso	Sebaceous	HV01, HV02, HV04, HV06, HV08, HV09, HV10, HV11	8	24
Ch	Cheek	Face	Sebaceous	HV01, HV02, HV04, HV09, HV10, HV11, HV12	7	21
Ea	External auditory canal	Ear	Sebaceous	HV03, HV04, HV09, HV11, HV12	5	15
Fh	Forehead	Face	Sebaceous	HV01, HV02, HV03, HV08, HV09, HV10, HV11, HV12	8	24
Hp	Hypothenar palm	Hand	Dry	HV01, HV04, HV06, HV07, HV08, HV09, HV10, HV11, HV12	9	27
Ic	Inguinal crease	Inside Hip	Moist	HV01, HV04, HV11, HV12	4	12
Id	Interdigital web	Hand	Moist	HV01, HV04, HV08, HV09, HV10, HV11, HV12	7	21
Mb	Manubrium	Torso	Sebaceous	HV01, HV02, HV04, HV05, HV06, HV08, HV09, HV10, HV11, HV12	10	30
Oc	Occiput	Torso	Sebaceous	HV01, HV02, HV03, HV04, HV06, HV08, HV09, HV10, HV11, HV12	10	30
Pc	Popliteal fossa	Leg	Moist	HV08, HV09, HV10, HV11, HV12	5	15
Ra	Retroauricular crease	Ear	Sebaceous	HV01, HV04, HV08, HV09, HV10, HV11, HV12	7	21
Vf	Volar forearm	Arm	Dry	HV06, HV07, HV08, HV09, HV10, HV11, HV12	7	21

Supplemental Table 2. Supervised learning using *P. acnes* pangenome presence/absence features

Body Site Symbol	No. of Samples	No. of Individuals	No. of Shared Markers	No. of AttSelect Markers	% Accuracy by Random Chance	RMLR				1NN				RMLR w/AttSelect				1NN w/AttSelect			
						% Accuracy	Lower 95% CI	Upper 95% CI	Ratio	% Accuracy	Lower 95% CI	Upper 95% CI	Ratio	% Accuracy	Lower 95% CI	Upper 95% CI	Ratio	% Accuracy	Lower 95% CI	Upper 95% CI	Ratio
Ac	24	8	1173	32	8.70	79.17	62.91	95.41	9.10	70.83	52.64	89.01	8.15	62.50	43.13	81.86	7.19	70.83	52.64	89.01	8.15
Al	30	10	613	27	6.90	83.33	69.99	96.66	12.08	90.00	79.26	100.70	13.05	80.00	65.68	94.31	11.60	86.67	74.50	98.83	12.57
Ba	24	8	1505	25	8.70	83.33	68.42	98.24	9.58	79.17	62.91	95.41	9.10	83.33	68.42	98.24	9.58	87.50	74.26	100.70	10.06
Ch	21	7	901	19	10.00	80.95	64.15	97.74	8.10	76.19	57.97	94.40	7.62	61.90	41.13	82.67	6.19	85.71	70.74	100.60	8.57
Ea	15	5	551	13	14.29	66.67	42.81	90.52	4.67	60.00	35.20	84.79	4.20	53.33	28.08	78.58	3.73	60.00	35.20	84.79	4.20
Fh	24	8	1047	19	8.70	79.17	62.91	95.41	9.10	79.17	62.91	95.41	9.10	54.17	34.23	74.10	6.23	66.67	47.80	85.52	7.67
Hp	27	9	1228	39	7.69	77.78	62.09	93.45	10.11	96.30	89.17	103.40	12.52	81.48	66.82	96.13	10.59	96.30	89.17	103.40	12.52
Ic	12	4	1073	9	18.18	75.00	50.50	99.49	4.13	58.33	30.43	86.22	3.21	83.33	62.24	104.40	4.58	50.00	21.71	78.28	2.75
Id	21	7	949	27	10.00	66.67	46.50	86.82	6.67	90.48	77.92	103.03	9.05	95.24	86.12	104.30	9.52	95.24	86.12	104.30	9.52
Mb	30	10	1646	24	6.90	86.67	74.50	98.83	12.57	93.33	84.40	102.20	13.53	70.00	53.60	86.39	10.15	90.00	79.26	100.70	13.05
Oc	30	10	1547	28	6.90	83.33	69.99	96.66	12.08	80.00	65.68	94.31	11.60	83.33	69.99	96.66	12.08	86.67	74.50	98.83	12.57
Pc	15	5	1142	28	14.29	73.33	50.95	95.71	5.13	80.00	59.75	100.20	5.60	86.67	69.46	103.80	6.07	93.33	80.70	105.90	6.53
Ra	21	7	981	24	10.00	80.95	64.15	97.74	8.10	85.71	70.74	100.60	8.57	80.95	64.15	97.74	8.10	80.95	64.15	97.74	8.10
Vf	21	7	1160	28	10.00	95.24	86.12	104.30	9.52	90.48	77.92	103.03	9.05	95.24	86.12	104.30	9.52	90.48	77.92	103.00	9.05

AttSelect = Attribute Selection

Table S3. Supervised learning using nucleotide diversity of shared clade-specific markers

Body Site Symbol	No. of Samples	No. of Individuals	No. of Shared Markers	No. of AttSelect Markers	% Accuracy by Random Chance	RMLR				1NN				RMLR w/AttSelect				1NN w/AttSelect			
						% Accuracy	Lower 95% CI	Upper 95% CI	Ratio	% Accuracy	Lower 95% CI	Upper 95% CI	Ratio	% Accuracy	Lower 95% CI	Upper 95% CI	Ratio	% Accuracy	Lower 95% CI	Upper 95% CI	Ratio
Ac	24	8	242	27	8.70	83.33	68.42	98.24	9.58	70.83	52.64	89.01	8.15	75.00	57.67	92.32	8.63	83.33	68.42	98.24	9.58
Al	30	10	260	42	6.90	83.33	69.99	96.66	12.08	56.67	38.93	74.39	8.22	83.33	69.99	96.66	12.08	70.00	53.60	86.39	10.15
Ba	24	8	252	30	8.70	95.83	87.83	103.80	11.02	79.17	62.91	95.41	9.10	83.33	68.42	98.24	9.58	87.50	74.26	100.70	10.06
Ch	21	7	252	31	10.00	100.00	100.00	100.00	10.00	90.48	77.92	103.00	9.05	90.48	77.92	103.00	9.05	100.00	100.00	100.00	10.00
Ea	15	5	249	26	14.29	86.67	69.46	103.80	6.07	66.67	42.81	90.52	4.67	66.67	42.81	90.52	4.67	60.00	35.20	84.79	4.20
Fh	24	8	253	37	8.70	95.83	87.83	103.80	11.02	75.00	57.67	92.32	8.63	87.50	74.26	100.70	10.06	87.50	74.26	100.70	10.06
Hp	27	9	255	47	7.69	92.59	82.71	102.40	12.04	96.30	89.17	103.40	12.52	96.30	89.17	103.40	12.52	92.59	82.71	102.40	12.04
Ic	12	4	336	22	18.18	66.67	39.99	93.33	3.67	100.00	100.00	100.00	5.50	83.33	62.24	104.40	4.58	75.00	50.50	99.49	4.13
Id	21	7	254	36	10.00	95.24	86.12	104.30	9.52	85.71	70.74	100.60	8.57	90.48	77.92	103.03	9.05	95.24	86.12	104.30	9.52
Mb	30	10	239	47	6.90	93.33	84.40	102.20	13.53	90.00	79.26	100.70	13.05	90.00	79.26	100.70	13.05	96.67	90.24	103.00	14.02
Oc	30	10	242	32	6.90	83.33	69.99	96.66	12.08	73.33	57.50	89.15	10.63	86.67	74.50	98.83	12.57	73.33	57.50	89.15	10.63
Pc	15	5	344	14	14.29	73.33	50.95	95.71	5.13	100.00	100.00	100.00	7.00	80.00	59.75	100.20	5.60	80.00	59.75	100.20	5.60
Ra	21	7	256	28	10.00	76.19	57.97	94.40	7.62	76.19	57.97	94.40	7.62	80.95	64.15	97.74	8.10	80.95	64.15	97.74	8.10
Vf	21	7	253	34	10.00	95.24	86.12	104.30	9.52	90.48	77.92	103.03	9.05	85.71	70.74	100.60	8.57	90.48	77.92	103.00	9.05

AttSelect = Attribute Selection

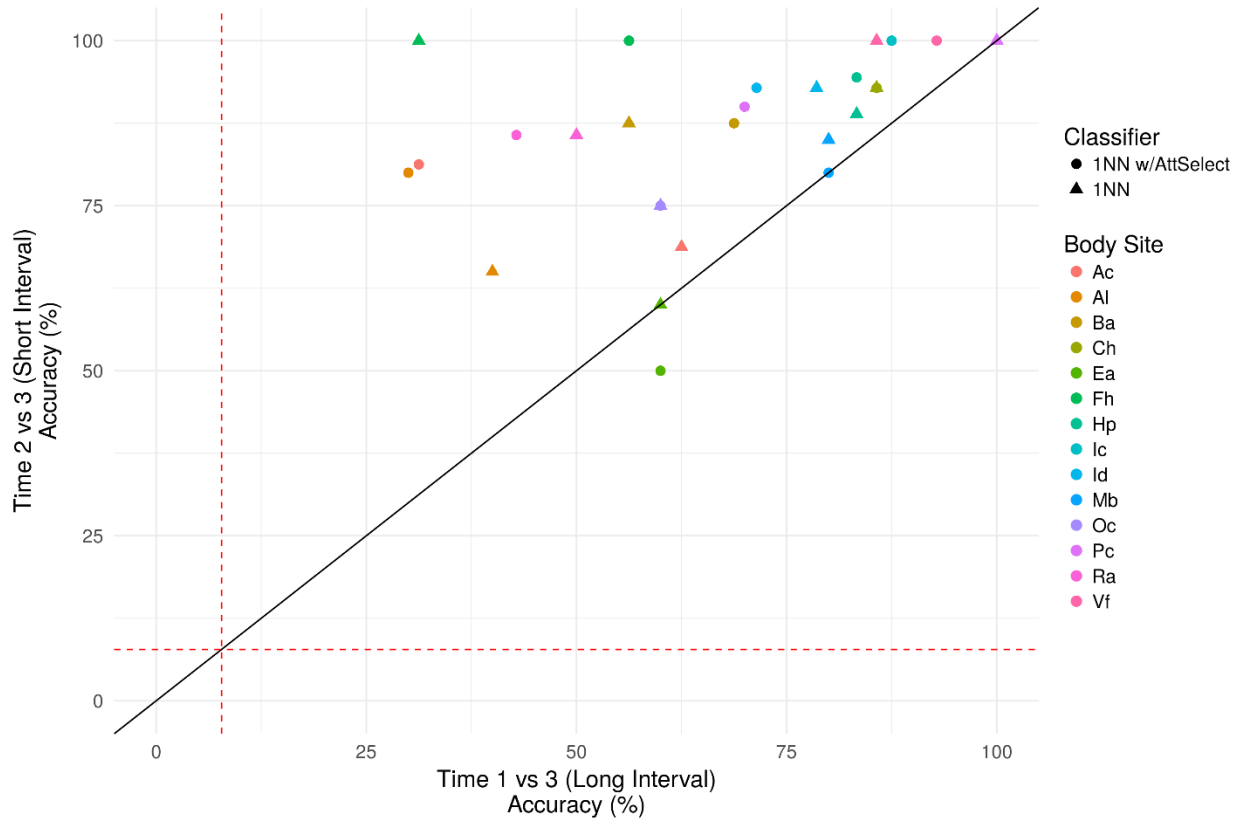


Figure S1. Comparison of 1-nearest-neighbor (1NN) classification accuracies, using leave-one-out cross validation, using the nucleotide diversities of clade-specific markers shared by all individuals from long (> 2.5 years) and short (5-10 weeks) sampling time intervals at 14 skin body sites. Red dashed lines represent the average predictive accuracy by random chance (7.8%).

Table S4. Selected features from all body sites using correlation-based feature selection

Feature	Taxonomic Clade	Level	Marker Length	Body Sites
gi 512466269 ref NZ_KE150404.1 :c2352553-2351375	Corynebacterium_sp_HFH0082	Species	1179	Pc
gi 552867507 ref NZ_KI515768.1 :184972-186138	Corynebacterium_tuberculostearicum	Species	1167	Pc
gi 417931402 ref NZ_AFUN01000007.1 :c97233-97075	GCF_000221145	Subspecies	159	Vf
gi 417933187 ref NZ_AFUN01000043.1 :4929-5147	GCF_000221145	Subspecies	219	Ra
gi 417932374 ref NZ_AFUN01000032.1 :143771-144007	GCF_000221145	Subspecies	237	Vf
gi 335055158 ref NZ_AFIL01000073.1 :77143-77310	Propionibacteriaceae	Family	168	Ba,Ch,Fh,Hp,Mb,Oc,Vf
gi 552896688 ref NZ_AXMI01000003.1 :c72034-71849	Propionibacteriaceae	Family	186	Al,Mb
gi 552891898 ref NZ_AXMG01000001.1 :c1945194-1944973	Propionibacteriaceae	Family	222	Ac,Fh,Mb,Oc
gi 552904108 ref NZ_KI518468.1 :464070-464315	Propionibacteriaceae	Family	246	Ch,Hp,Id,Mb
gi 342211239 ref NZ_AFUK01000001.1 :c359834-359544	Propionibacteriaceae	Family	291	Ac,Al,Mb
gi 335053539 ref NZ_AFIL01000025.1 :23315-23623	Propionibacteriaceae	Family	309	Al,Ra,Vf
gi 335050656 ref NZ_AFIK01000017.1 :c30516-30079	Propionibacteriaceae	Family	438	Al,Ba,Ea
gi 552879811 ref NZ_AXME01000001.1 :c2014536-2014075	Propionibacteriaceae	Family	462	Ra
gi 355707189 ref NZ_JH376566.1 :c170886-169537	Propionibacteriaceae	Family	1350	Ch,Ea,Fh,Ra
gi 422496709 ref NZ_GL383802.1 :56803-56916	Propionibacterium_acnes	Species	114	Ea,Hp,Mb,Oc,Ra
gi 552876815 ref NZ_KI515686.1 :c642879-642748	Propionibacterium_acnes	Species	132	Ea
gi 335050697 ref NZ_AFIK01000020.1 :c12439-12299	Propionibacterium_acnes	Species	141	Ea
gi 335053685 ref NZ_AFIL01000030.1 :c57253-57113	Propionibacterium_acnes	Species	141	Al,Pc
gi 552895565 ref NZ_AXMI01000001.1 :c94830-94675	Propionibacterium_acnes	Species	156	Vf
gi 422539030 ref NZ_GL384611.1 :c783227-783054	Propionibacterium_acnes	Species	174	Ra
gi 552875787 ref NZ_KI515684.1 :c325537-325361	Propionibacterium_acnes	Species	177	Ac,Fh,Oc,Vf
gi 552891898 ref NZ_AXMG01000001.1 :99114-99290	Propionibacterium_acnes	Species	177	Ac,Al,Hp
gi 355707384 ref NZ_JH376567.1 :c400475-400284	Propionibacterium_acnes	Species	192	Hp,Mb
gi 552875787 ref NZ_KI515684.1 :c488989-488798	Propionibacterium_acnes	Species	192	Ba,Ic,Oc
gi 335052413 ref NZ_AFIK01000085.1 :c27721-27527	Propionibacterium_acnes	Species	195	Id,Pc
gi 355707384 ref NZ_JH376567.1 :592116-592328	Propionibacterium_acnes	Species	213	Al,Ba,Fh
gi 342211239 ref NZ_AFUK01000001.1 :535213-535428	Propionibacterium_acnes	Species	216	Ba,Ea,Hp,Id
gi 342211239 ref NZ_AFUK01000001.1 :c1376325-1376110	Propionibacterium_acnes	Species	216	Mb
gi 342211239 ref NZ_AFUK01000001.1 :2069064-2069282	Propionibacterium_acnes	Species	219	Ic
gi 552876418 ref NZ_KI515685.1 :c157510-157292	Propionibacterium_acnes	Species	219	Ac
gi 422500804 ref NZ_GL383759.1 :c166532-166311	Propionibacterium_acnes	Species	222	Ac,Ba,Fh,Hp,Ra,Vf
gi 482889214 ref NC_021085.1 :654926-655153	Propionibacterium_acnes	Species	228	Ic,Mb
gi 355707189 ref NZ_JH376566.1 :326756-326986	Propionibacterium_acnes	Species	231	Ac,Fh,Pc,Vf
gi 335054657 ref NZ_AFIL01000058.1 :28786-29034	Propionibacterium_acnes	Species	249	Ac,Al,Fh,Id,Oc,Ra
gi 552876418 ref NZ_KI515685.1 :133418-133666	Propionibacterium_acnes	Species	249	Fh,Hp
gi 552879811 ref NZ_AXME01000001.1 :1128888-1129136	Propionibacterium_acnes	Species	249	Ac,Al
gi 552879811 ref NZ_AXME01000001.1 :c1599141-1598893	Propionibacterium_acnes	Species	249	Mb

gi 552891898 ref NZ_AXMG01000001.1 :1440218-1440469	Propionibacterium_acnes	Species	252	Mb
gi 552891898 ref NZ_AXMG01000001.1 :1877095-1877379	Propionibacterium_acnes	Species	285	Al,Hp
gi 422434141 ref NZ_GL384222.1 :86635-86934	Propionibacterium_acnes	Species	300	Al,Id
gi 552879811 ref NZ_AXME01000001.1 :702826-703131	Propionibacterium_acnes	Species	306	Ac,Mb
gi 342211239 ref NZ_AFUK01000001.1 :2001142-2001459	Propionibacterium_acnes	Species	318	Vf
gi 422482616 ref NZ_GL383714.1 :170052-170369	Propionibacterium_acnes	Species	318	Fh,Mb,Ra
gi 335051382 ref NZ_AFIK01000053.1 :c47134-46805	Propionibacterium_acnes	Species	330	Oc
gi 335051798 ref NZ_AFIK01000065.1 :c4330-4001	Propionibacterium_acnes	Species	330	Ac
gi 342211239 ref NZ_AFUK01000001.1 :c1845075-1844710	Propionibacterium_acnes	Species	366	Ch,Hp,Mb
gi 355707384 ref NZ_JH376567.1 :621102-621467	Propionibacterium_acnes	Species	366	Al,Hp
gi 552875787 ref NZ_KI515684.1 :c584270-583890	Propionibacterium_acnes	Species	381	Al,Oc
gi 335050749 ref NZ_AFIK01000022.1 :c35390-34998	Propionibacterium_acnes	Species	393	Ea
gi 552891898 ref NZ_AXMG01000001.1 :c1460921-1460529	Propionibacterium_acnes	Species	393	Ea
gi 552891898 ref NZ_AXMG01000001.1 :793445-793843	Propionibacterium_acnes	Species	399	Ac
gi 552891898 ref NZ_AXMG01000001.1 :c2382295-2381897	Propionibacterium_acnes	Species	399	Oc
gi 355707384 ref NZ_JH376567.1 :c388018-387605	Propionibacterium_acnes	Species	414	Al,Ch,Fh
gi 552879811 ref NZ_AXME01000001.1 :49241-49654	Propionibacterium_acnes	Species	414	Ic
gi 552879811 ref NZ_AXME01000001.1 :c550719-550297	Propionibacterium_acnes	Species	423	Al,Pc
gi 552876418 ref NZ_KI515685.1 :c713438-713010	Propionibacterium_acnes	Species	429	Hp
gi 552876418 ref NZ_KI515685.1 :910-1341	Propionibacterium_acnes	Species	432	Ic
gi 552891898 ref NZ_AXMG01000001.1 :834824-835255	Propionibacterium_acnes	Species	432	Id
gi 355707384 ref NZ_JH376567.1 :190789-191232	Propionibacterium_acnes	Species	444	Al
gi 552902020 ref NZ_AXMK01000001.1 :c1228696-1228250	Propionibacterium_acnes	Species	447	Oc
gi 552876418 ref NZ_KI515685.1 :656232-656693	Propionibacterium_acnes	Species	462	Mb
gi 552879811 ref NZ_AXME01000001.1 :c1651715-1651248	Propionibacterium_acnes	Species	468	Id
gi 552895565 ref NZ_AXMI01000001.1 :619555-620031	Propionibacterium_acnes	Species	477	Ra
gi 552891898 ref NZ_AXMG01000001.1 :c1328090-1327596	Propionibacterium_acnes	Species	495	Oc
gi 552876418 ref NZ_KI515685.1 :c1014617-1014117	Propionibacterium_acnes	Species	501	Mb,Ra
gi 552896371 ref NZ_AXMI01000002.1 :319095-319601	Propionibacterium_acnes	Species	507	Ba,Hp,Ic
gi 422439172 ref NZ_GL384485.1 :c80610-80086	Propionibacterium_acnes	Species	525	Ac,Ba
gi 552895565 ref NZ_AXMI01000001.1 :c29469-28930	Propionibacterium_acnes	Species	540	Ea
gi 552896688 ref NZ_AXMI01000003.1 :232201-232740	Propionibacterium_acnes	Species	540	Ba
gi 552896688 ref NZ_AXMI01000003.1 :c38494-37955	Propionibacterium_acnes	Species	540	Ch
gi 552891898 ref NZ_AXMG01000001.1 :592123-592665	Propionibacterium_acnes	Species	543	Fh,Ic
gi 552876418 ref NZ_KI515685.1 :36713-37258	Propionibacterium_acnes	Species	546	Ac
gi 552879811 ref NZ_AXME01000001.1 :c1657647-1657093	Propionibacterium_acnes	Species	555	Hp,Mb,Oc,Pc

gi 552897201 ref NZ_AXMI01000004.1 :c231437-230883	Propionibacterium_acnes	Species	555	Fh
gi 342211239 ref NZ_AFUK01000001.1 :c1715790-1715233	Propionibacterium_acnes	Species	558	Ba,Mb
gi 552879811 ref NZ_AXME01000001.1 :c2447430-2446870	Propionibacterium_acnes	Species	561	Ic
gi 552875787 ref NZ_KI515684.1 :c96934-96368	Propionibacterium_acnes	Species	567	Al
gi 552879811 ref NZ_AXME01000001.1 :587256-587825	Propionibacterium_acnes	Species	570	Ac,Pc
gi 552876815 ref NZ_KI515686.1 :613740-614315	Propionibacterium_acnes	Species	576	Ba
gi 295129529 ref NC_014039.1 :c1439020-1438442	Propionibacterium_acnes	Species	579	Ch,Ic
gi 355708280 ref NZ_JH376568.1 :c255689-255105	Propionibacterium_acnes	Species	585	Vf
gi 552895565 ref NZ_AXMI01000001.1 :c325088-324501	Propionibacterium_acnes	Species	588	Ch,Vf
gi 355707189 ref NZ_JH376566.1 :507019-507612	Propionibacterium_acnes	Species	594	Ac,Ic
gi 335053761 ref NZ_AFIL01000031.1 :46041-46637	Propionibacterium_acnes	Species	597	Hp,Id
gi 422499020 ref NZ_GL383811.1 :10443-11039	Propionibacterium_acnes	Species	597	Hp,Mb,Oc
gi 552896371 ref NZ_AXMI01000002.1 :674988-675587	Propionibacterium_acnes	Species	600	Al,Oc
gi 552891898 ref NZ_AXMG01000001.1 :c1443707-1443105	Propionibacterium_acnes	Species	603	Id,Mb
gi 552896371 ref NZ_AXMI01000002.1 :638332-638937	Propionibacterium_acnes	Species	606	Id,Oc
gi 335050542 ref NZ_AFIK01000013.1 :c12739-12119	Propionibacterium_acnes	Species	621	Ic
gi 552879811 ref NZ_AXME01000001.1 :1327950-1328573	Propionibacterium_acnes	Species	624	Hp,Oc,Vf
gi 355708280 ref NZ_JH376568.1 :c185858-185226	Propionibacterium_acnes	Species	633	Ba,Ea,Vf
gi 422388755 ref NZ_GL878472.1 :c178957-178325	Propionibacterium_acnes	Species	633	Ch
gi 552895565 ref NZ_AXMI01000001.1 :c282323-281691	Propionibacterium_acnes	Species	633	Al,Mb,Ra
gi 552895565 ref NZ_AXMI01000001.1 :c306684-306040	Propionibacterium_acnes	Species	645	Id,Pc
gi 422386402 ref NZ_GL878455.1 :c812899-812252	Propionibacterium_acnes	Species	648	Ac,Ch,Fh,Hp,Id
gi 552876418 ref NZ_KI515685.1 :187493-188140	Propionibacterium_acnes	Species	648	Ch
gi 417929021 ref NZ_AFUM01000003.1 :557611-558279	Propionibacterium_acnes	Species	669	Ea
gi 552876815 ref NZ_KI515686.1 :c50594-49899	Propionibacterium_acnes	Species	696	Ac,Hp,Id,Vf
gi 355707189 ref NZ_JH376566.1 :882552-883256	Propionibacterium_acnes	Species	705	Mb
gi 355707384 ref NZ_JH376567.1 :251291-251998	Propionibacterium_acnes	Species	708	Ch,Id,Mb
gi 342211239 ref NZ_AFUK01000001.1 :c1579497-1578787	Propionibacterium_acnes	Species	711	Hp,Ic
gi 342211239 ref NZ_AFUK01000001.1 :1588290-1589009	Propionibacterium_acnes	Species	720	Hp
gi 552897201 ref NZ_AXMI01000004.1 :48085-48816	Propionibacterium_acnes	Species	732	Ch,Mb,Ra
gi 335055061 ref NZ_AFIL01000070.1 :3643-4386	Propionibacterium_acnes	Species	744	Vf
gi 552876815 ref NZ_KI515686.1 :c586091-585333	Propionibacterium_acnes	Species	759	Al,Ic
gi 422512600 ref NZ_GL383846.1 :26161-26922	Propionibacterium_acnes	Species	762	Mb
gi 552891898 ref NZ_AXMG01000001.1 :1150303-1151070	Propionibacterium_acnes	Species	768	Hp,Ic,Pc,Ra
gi 552875787 ref NZ_KI515684.1 :459339-460115	Propionibacterium_acnes	Species	777	Al,Fh
gi 552896371 ref NZ_AXMI01000002.1 :c247178-246402	Propionibacterium_acnes	Species	777	Mb
gi 422392301 ref NZ_GL883048.1 :64439-65218	Propionibacterium_acnes	Species	780	Vf
gi 335052272 ref NZ_AFIK01000082.1 :c111360-110575	Propionibacterium_acnes	Species	786	Al
gi 552876418 ref NZ_KI515685.1 :c849089-848304	Propionibacterium_acnes	Species	786	Id

gi 342211239 ref NZ_AFUK01000001.1 :1851240-1852028	Propionibacterium_acnes	Species	789	Ac,Id
gi 335055047 ref NZ_AFIL01000069.1 :c9632-8838	Propionibacterium_acnes	Species	795	Ic,Id,Pc
gi 387502364 ref NC_017535.1 :c1339878-1339075	Propionibacterium_acnes	Species	804	Hp,Id
gi 335050601 ref NZ_AFIK01000014.1 :315-1133	Propionibacterium_acnes	Species	819	Ic
gi 552879811 ref NZ_AXME01000001.1 :368977-369813	Propionibacterium_acnes	Species	837	Al,Hp,Ic
gi 552896371 ref NZ_AXMI01000002.1 :721564-722400	Propionibacterium_acnes	Species	837	Ch,Ic
gi 552879811 ref NZ_AXME01000001.1 :97330-98208	Propionibacterium_acnes	Species	879	Mb
gi 422423570 ref NZ_GL384259.1 :c300859-299957	Propionibacterium_acnes	Species	903	Fh,Hp,Ic
gi 552879811 ref NZ_AXME01000001.1 :40840-41742	Propionibacterium_acnes	Species	903	Ac,Ba,Oc
gi 552891898 ref NZ_AXMG01000001.1 :c2312839-2311925	Propionibacterium_acnes	Species	915	Al,Ch,Hp,Id
gi 342211239 ref NZ_AFUK01000001.1 :527724-528653	Propionibacterium_acnes	Species	930	Al,Hp
gi 355708440 ref NZ_JH376569.1 :c80380-79448	Propionibacterium_acnes	Species	933	Mb
gi 422538210 ref NZ_GL384610.1 :c285619-284684	Propionibacterium_acnes	Species	936	Hp
gi 355707189 ref NZ_JH376566.1 :1026577-1027557	Propionibacterium_acnes	Species	981	Hp
gi 552876418 ref NZ_KI515685.1 :432422-433465	Propionibacterium_acnes	Species	1044	Ba,Fh
gi 355707384 ref NZ_JH376567.1 :90374-91453	Propionibacterium_acnes	Species	1080	Ac,Ba,Ch,Ea,Fh,Id,Mb,Vf
gi 552879811 ref NZ_AXME01000001.1 :1265476-1266570	Propionibacterium_acnes	Species	1095	Ac,Ea
gi 552895565 ref NZ_AXMI01000001.1 :c443438-442323	Propionibacterium_acnes	Species	1116	Pc
gi 335050281 ref NZ_AFIK01000001.1 :c2940-1807	Propionibacterium_acnes	Species	1134	Ac,Al,Ch,Fh,Hp,Oc,Ra
gi 422552858 ref NZ_GL383469.1 :c216727-215501	Propionibacterium_acnes	Species	1227	Fh,Hp,Mb
gi 552896371 ref NZ_AXMI01000002.1 :c671938-670697	Propionibacterium_acnes	Species	1242	Mb,Pc
gi 552879811 ref NZ_AXME01000001.1 :c2135959-2134715	Propionibacterium_acnes	Species	1245	Ic
gi 335051382 ref NZ_AFIK01000053.1 :c36245-34977	Propionibacterium_acnes	Species	1269	Ch,Ea,Ra
gi 342211239 ref NZ_AFUK01000001.1 :593413-594699	Propionibacterium_acnes	Species	1287	Al,Id
gi 552897201 ref NZ_AXMI01000004.1 :c577292-575922	Propionibacterium_acnes	Species	1371	Al,Mb
gi 552876815 ref NZ_KI515686.1 :c200743-199319	Propionibacterium_acnes	Species	1425	Ba,Fh,Hp,Id,Oc,Vf
gi 552902190 ref NZ_AXML01000004.1 :c579659-578172	Propionibacterium_acnes	Species	1488	Ea
gi 552876418 ref NZ_KI515685.1 :c1032381-1030873	Propionibacterium_acnes	Species	1509	Oc,Ra
gi 335051081 ref NZ_AFIK01000036.1 :c1716-193	Propionibacterium_acnes	Species	1524	Id,Mb
gi 335053104 ref NZ_AFIL01000010.1 :c33862-32210	Propionibacterium_acnes	Species	1653	Al,Ch,Fh,Hp,Mb,Oc,Ra,Vf
gi 395203852 ref NZ_AFAM01000006.1 :c75652-75533	Propionibacterium_humerusii	Species	120	Hp,Vf
gi 395205346 ref NZ_AFAM01000017.1 :c304806-304684	Propionibacterium_humerusii	Species	123	Ba,Ea,Hp,Ra,Vf
gi 395203690 ref NZ_AFAM01000005.1 :c52756-52631	Propionibacterium_humerusii	Species	126	Ba,Ch,Ea,Fh,Hp,Mb
gi 395205346 ref NZ_AFAM01000017.1 :477016-477147	Propionibacterium_humerusii	Species	132	Ch,Oc
gi 395206455 ref NZ_AFAM01000020.1 :c4555-4424	Propionibacterium_humerusii	Species	132	Al,Fh
gi 395206111 ref NZ_AFAM01000018.1 :226375-226509	Propionibacterium_humerusii	Species	135	Vf
gi 395204147 ref NZ_AFAM01000008.1 :231579-231755	Propionibacterium_humerusii	Species	177	Al,Ba,Hp,Vf

gi 395205131 ref NZ_AFAM01000014.1 :c69464-69276	Propionibacterium_humerusii	Species	189	Fh,Oc
gi 395203469 ref NZ_AFAM01000002.1 :37393-37605	Propionibacterium_humerusii	Species	213	Ac,Fh,Ra,Vf
gi 395203690 ref NZ_AFAM01000005.1 :c111259-111038	Propionibacterium_humerusii	Species	222	Ba,Fh,Mb
gi 395204147 ref NZ_AFAM01000008.1 :c721415-721191	Propionibacterium_humerusii	Species	225	Ch
gi 395205346 ref NZ_AFAM01000017.1 :12091-12363	Propionibacterium_humerusii	Species	273	Al,Ch,Ic,Id,Vf
gi 395203061 ref NZ_AFAM01000001.1 :c312862-312554	Propionibacterium_humerusii	Species	309	Hp,Id,Oc
gi 395203852 ref NZ_AFAM01000006.1 :75953-76378	Propionibacterium_humerusii	Species	426	Ba,Fh
gi 395205346 ref NZ_AFAM01000017.1 :c476952-476512	Propionibacterium_humerusii	Species	441	Id
gi 395203852 ref NZ_AFAM01000006.1 :c137365-136916	Propionibacterium_humerusii	Species	450	Al,Ba,Ch,Ea,Fh,Hp,Mb,Oc,Ra
gi 395205346 ref NZ_AFAM01000017.1 :c43269-42787	Propionibacterium_humerusii	Species	483	Ea,Ic
gi 395203852 ref NZ_AFAM01000006.1 :193159-193779	Propionibacterium_humerusii	Species	621	Al,Ba,Ch,Hp,Mb,Vf
gi 395203061 ref NZ_AFAM01000001.1 :c260639-259980	Propionibacterium_humerusii	Species	660	Ch,Ea
gi 395205131 ref NZ_AFAM01000014.1 :c59116-58358	Propionibacterium_humerusii	Species	759	Mb,Oc
gi 395203061 ref NZ_AFAM01000001.1 :c244616-243831	Propionibacterium_humerusii	Species	786	Ea,Vf
gi 395205346 ref NZ_AFAM01000017.1 :c655204-654380	Propionibacterium_humerusii	Species	825	Vf
gi 395203061 ref NZ_AFAM01000001.1 :c34216-33161	Propionibacterium_humerusii	Species	1056	Fh,Hp
gi 395203690 ref NZ_AFAM01000005.1 :7982-10204	Propionibacterium_humerusii	Species	2223	Ac,Al,Ba,Fh,Ra
gi 335054520 ref NZ_AFIL01000051.1 :c25042-24929	Propionibacterium_sp_434_HC2	Species	114	Al,Ba,Ch,Fh,Hp,Mb,Vf
gi 335052938 ref NZ_AFIL01000004.1 :4461-4578	Propionibacterium_sp_434_HC2	Species	118	Oc
gi 335054139 ref NZ_AFIL01000041.1 :c77880-77749	Propionibacterium_sp_434_HC2	Species	132	Al,Fh,Oc
gi 335053207 ref NZ_AFIL01000016.1 :c75436-75296	Propionibacterium_sp_434_HC2	Species	141	Al,Ba,Ch,Ea,Hp,Id,Oc,Ra,Vf
gi 335054309 ref NZ_AFIL01000044.1 :65842-65994	Propionibacterium_sp_434_HC2	Species	153	Ac,Ea,Hp,Id,Mb,Ra
gi 335055158 ref NZ_AFIL01000073.1 :155425-155610	Propionibacterium_sp_434_HC2	Species	186	Ba,Fh
gi 335053104 ref NZ_AFIL01000010.1 :c43071-42837	Propionibacterium_sp_434_HC2	Species	235	Ch,Ea,Id,Mb,Oc,Vf
gi 335054434 ref NZ_AFIL01000047.1 :12103-12642	Propionibacterium_sp_434_HC2	Species	540	Fh,Mb,Oc
gi 355707189 ref NZ_JH376566.1 :236054-236590	Propionibacterium_sp_5_U_42AFAA	Species	537	Ba,Ch,Ea,Mb,Ra
gi 514979630 ref NZ_KE340299.1 :c1519736-1517826	Propionibacterium_sp_HGH0353	Species	1911	Id
gi 550737965 gb AXMM01000001.1 :c339754-339413	Propionibacterium_sp_KPL1844	Species	342	Al,Ba,Fh,Hp,Id,Ra,Vf
gi 552897361 ref NZ_AXMI01000006.1 :1-107	Propionibacterium_sp_KPL1854	Species	107	Id
gi 552897324 ref NZ_AXMI01000005.1 :788-1104	Propionibacterium_sp_KPL1854	Species	317	Id
gi 552896371 ref NZ_AXMI01000002.1 :767403-767774	Propionibacterium_sp_KPL1854	Species	372	Al,Ea,Fh,Hp,Id,Ra
gi 552879811 ref NZ_AXME01000001.1 :c1820429-1820292	Propionibacterium_sp_KPL2008	Species	138	Ac,Hp
gi 552879811 ref NZ_AXME01000001.1 :1431752-1431913	Propionibacterium_sp_KPL2008	Species	162	Id,Vf
gi 552879811 ref NZ_AXME01000001.1 :865400-865597	Propionibacterium_sp_KPL2008	Species	198	Ra

gi 552879811 ref NZ_AXME01000001.1 :655649-655855	Propionibacterium_sp_KPL2008	Species	207	Al,Pc
gi 552879811 ref NZ_AXME01000001.1 :c590861-590655	Propionibacterium_sp_KPL2008	Species	207	Id,Mb,Vf
gi 552879811 ref NZ_AXME01000001.1 :990664-990933	Propionibacterium_sp_KPL2008	Species	270	Ba,Mb
gi 552879811 ref NZ_AXME01000001.1 :c31864-31571	Propionibacterium_sp_KPL2008	Species	294	Al,Ch,Mb,Oc

Table S5. Conditional logistic regression odds ratios

Variable	Odds Ratio	Lower 0.95 CI	Upper 0.95 CI	P-value	
Ear (Ea)	0.38208	0.2204	0.6624	0.00061	***
Inguinal crease (Ic)	0.71288	0.3835	1.3252	0.28466	
Antecubital fossa (Ac)	0.67541	0.4002	1.1398	0.141588	
Forehead (Fh)	0.72778	0.437	1.212	0.222048	
Alar crease (Al)	1.20796	0.7315	1.9947	0.460331	
Retroauricular crease (Ra)	0.84233	0.4904	1.4468	0.534128	
Popliteal fossa (Pc)	0.72593	0.393	1.3409	0.306279	
Back (Ba)	1.56281	0.8981	2.7194	0.114143	
Cheek (Ch)	1.90783	1.0653	3.4166	0.029789	*
Manubrium (Mb)	2.64197	1.4895	4.6861	0.000891	***
Interdigital web (Id)	1.83754	0.9833	3.4341	0.056518	.
Hypothenar palm (Hp)	2.60042	1.3892	4.8678	0.002813	**
Volar forearm (Vf)	2.16785	1.0624	4.4236	0.033483	*
Presence/Absence	0.71797	0.5736	0.8987	0.003816	**
RMLR w/AttSelect	0.78406	0.5726	1.0736	0.129276	
1NN	0.84402	0.6148	1.1587	0.294287	
RMLR	1.0422	0.7527	1.443	0.803371	

Reference variables - Occiput (Oc), Nucleotide Diversity (ND), 1NN w/AttSelect

Significance codes - p<0.001 '***', p<0.01 '**', p<0.05 '*', p<0.1 '.'