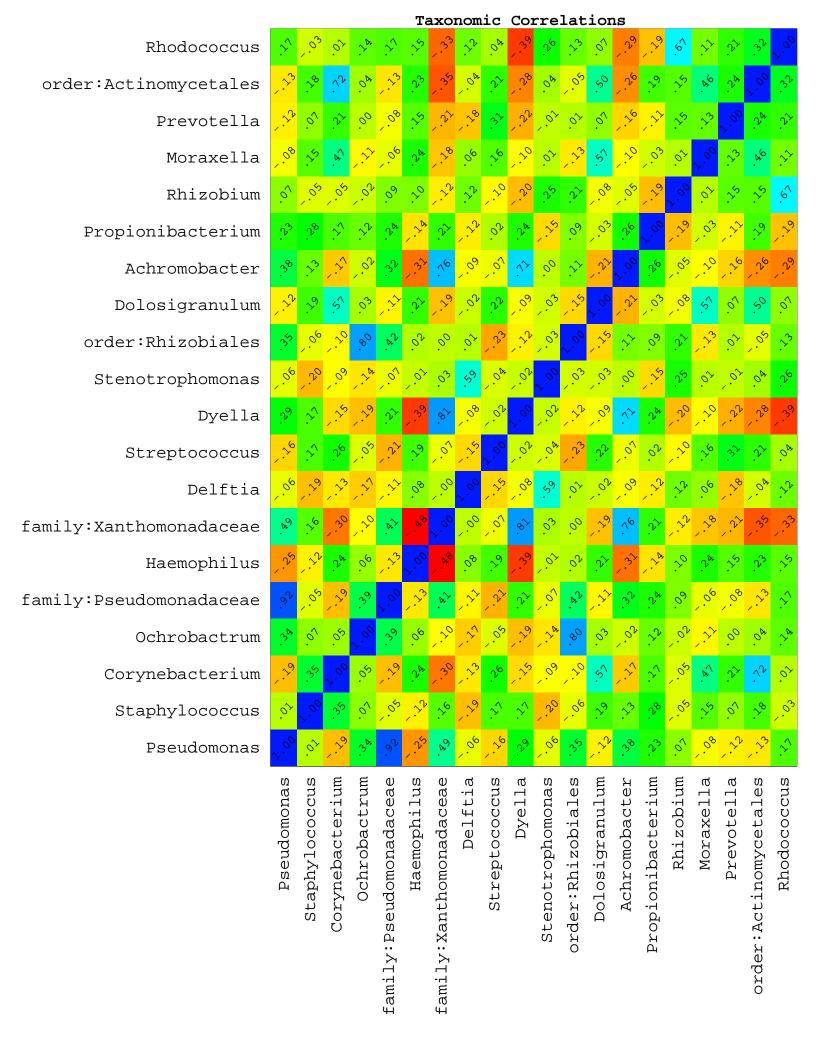
# Multivariate Regression with 20 top taxa Proportion of overall mean abundance represented: 0.899084979434395

## Analysis of Variance Table

	Df	Pillai	approx F	num Df	den Df	Pr(>F)	
(Intercept)	1	0.9942	634.86	20	74	< 2.2e-16	* * *
Patient	20	6.7295	2.36	400	1860	< 2.2e-16	* * *
daynumber_for_collection	1	0.2216	1.05	20	74	0.41518	
Host_Age	1	0.7012	8.68	20	74	1.953e-12	* * *
Host_Gender	1	0.4918	3.58	20	74	3.219e-05	* * *
Medical_complications	1	0.6103	5.79	20	74	1.096e-08	* * *
Patient_diagnosis	1	0.3307	1.83	20	74	0.03270	*
Post_visit_treament	1	0.7053	8.85	20	74	1.232e-12	* * *
Туре	1	0.6623	7.25	20	74	1.107e-10	* * *
Vacc_status	1	0.3335	1.85	20	74	0.02997	*
Fever	1	0.3354	1.87	20	74	0.02819	*
SYMPTOM_COUGH	1	0.5778	5.06	20	74	1.329e-07	* * *
Residuals	93						

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Univariate Pr(>F) 60 0 80 00 5 Rhodococcus .86 ^^ . سې 20 08 0 5 30 order: Actinomycetales 03 °√ °√ A.A. 00 30 > A 0 2 3 Prevotella 96 20 20 3 **%**0) S 0> Moraxella 32 92 · 3 0 36 5 00 Rhizobium 24 88 <del>ر</del>ئ 0 60% 3 63 0> Propionibacterium · ^ 60 6 0> 0 8/3 6> Achromobacter 26 OA 5 P<sub>0</sub> 6 oby. ofs oo Dolosigranulum 00 °°, 9<sup>></sup> So 2 0 00 1 DS 6 order:Rhizobiales 76 03 00 ^°° 9 0 200 \$^ **√** Stenotrophomonas 17 31 OA <u>^</u>^ 3 0> **№** Dyella 19 95 0 08 600 **√**V 86 50 0> 9> Streptococcus 12 60 8 3 Delftia OA 33 ₹ % ე<sup>®</sup> · % 0,> ა<sup>ე</sup> family: Xanthomonadaceae 20 OA 67 60 0> 0 05 3<sup>></sup> Haemophilus 45 35 2 3 >°° 3 50 50 54 family:Pseudomonadaceae 06 20 26 0 0 3/4 **₽** 3 0> Ochrobactrum 70 00 86 80 > X **№** 200 0> Corynebacterium 18 92 53 51 67 90 φ<sub>y</sub> 0> Staphylococcus .°° · 0 A 0 8 Pseudomonas Patient Medical\_complications Patient\_diagnosis Post\_visit\_treament Fever SYMPTOM\_COUGH daynumber\_for\_collection Host\_Age Vacc\_status Host\_Gender

	Univariate R Squared	
Rhodococcus	%	? <sup>?</sup>
order:Actinomycetales		.°°
Prevotella	5°	? <sup>0</sup>
Moraxella	્ <sup>ઇ</sup>	ن <sup>م</sup>
Rhizobium	. A.C.	? <sup>9</sup>
Propionibacterium	, ob	$\mathcal{P}^{\mathcal{V}}$
Achromobacter	જે <sup>ગ</sup>	? <sup>©</sup>
Dolosigranulum	<sup>ું</sup>	. <del>``</del>
order:Rhizobiales	Ay	,
Stenotrophomonas	ن <sup>م</sup>	· Marian
Dyella	, <b>&gt;</b>	$\mathcal{N}_{\mathcal{N}}$
Streptococcus	<sup>ეზ</sup>	<i>&gt;</i> ^
Delftia	્રે <sup>જે</sup>	· · · · · · · · · · · · · · · · · · ·
family:Xanthomonadaceae	S	·%
Haemophilus	<u>ن</u> •	
family:Pseudomonadaceae	.3 <sup>^</sup>	<i>&gt;</i> ^
Ochrobactrum	<sup>ب</sup> ي .	· NA
Corynebacterium	<i>%</i>	· N
Staphylococcus	જે	ა <sup>6</sup>
Pseudomonas	? <sup>℃</sup>	$ angle^{\mathcal{V}}$
	7	2
	<b>☆</b>	<b>☆</b>
		(I)
		(1)

Adjusted R^2

## 1.) Pseudomonas

Mean abundance: 29.5%

R^2: 0.3364

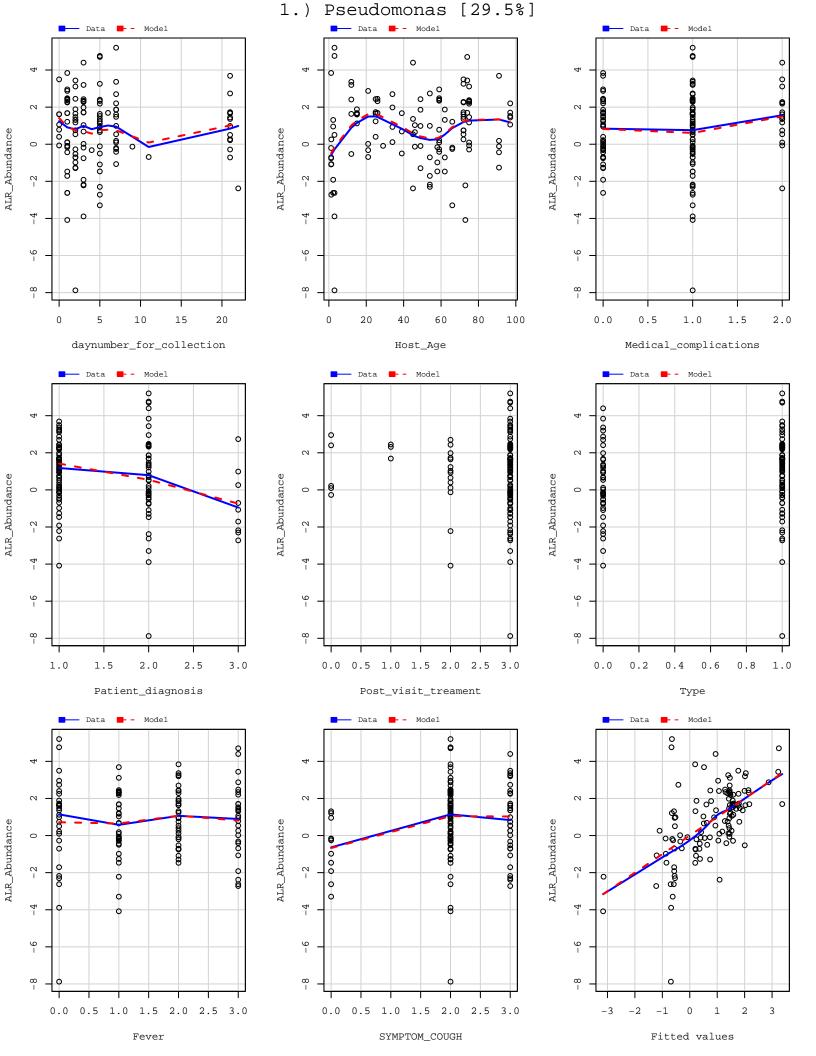
Adjusted R^2: 0.1223

Analysis of Variance Table

Response: ALR\_Abundance

	Df	Sum Sq	Mean Sq	F value	Pr(>F)	
Patient	20	119.47	5.9734	1.7553	0.03790	*
${\tt daynumber\_for\_collection}$	1	0.01	0.0067	0.0020	0.96469	
Host_Age	1	19.74	19.7425	5.8013	0.01799	*
Host_Gender	1	1.89	1.8874	0.5546	0.45831	
Medical_complications	1	3.52	3.5175	1.0336	0.31195	
Patient_diagnosis	1	5.78	5.7821	1.6991	0.19563	
Post_visit_treament	1	1.53	1.5293	0.4494	0.50428	
Туре	1	0.01	0.0051	0.0015	0.96921	
Vacc_status	1	0.47	0.4738	0.1392	0.70989	
Fever	1	0.17	0.1702	0.0500	0.82352	
SYMPTOM_COUGH	1	7.85	7.8468	2.3058	0.13229	
Residuals	93	316.49	3.4031			

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## 2.) Staphylococcus

Mean abundance: 12.1%

R^2: 0.5189

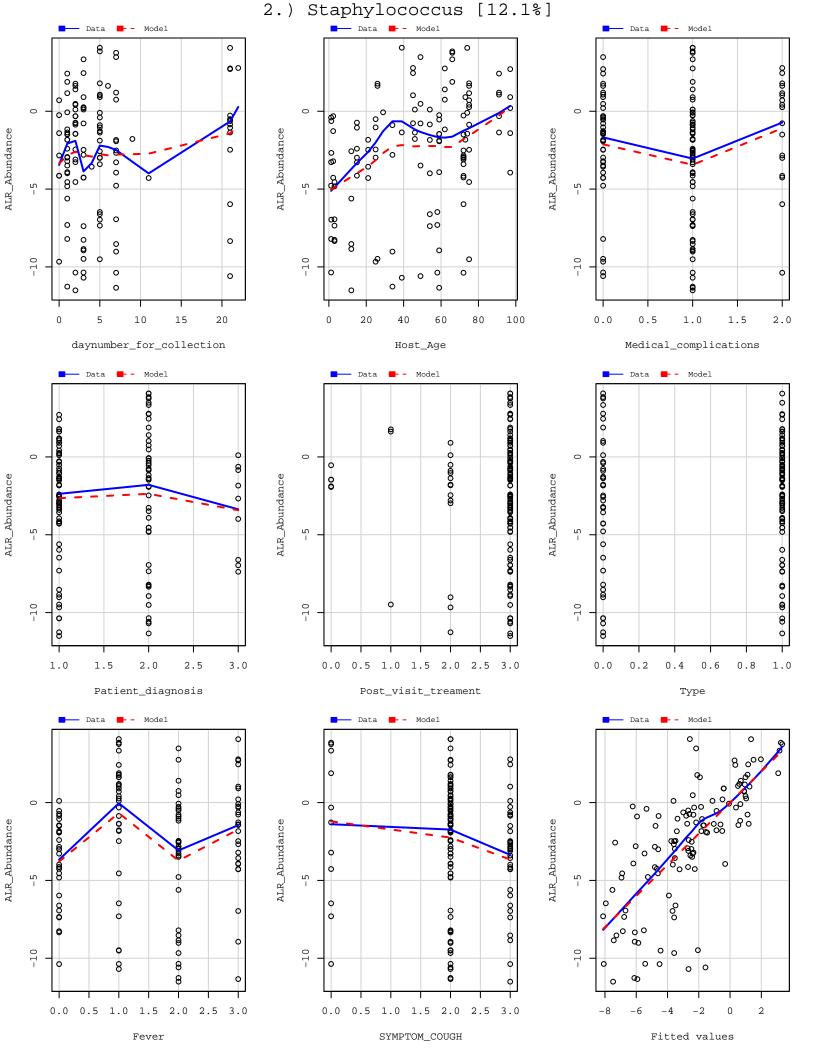
Adjusted R^2: 0.3637

Analysis of Variance Table

Response: ALR\_Abundance

	Df	Sum Sq	Mean Sq	F value	Pr(>F)	
Patient	20	772.52	38.626	3.9911	2.586e-06	* * *
daynumber_for_collection	1	20.61	20.613	2.1299	0.147818	
Host_Age	1	0.79	0.789	0.0816	0.775820	
Host_Gender	1	0.16	0.162	0.0168	0.897225	
Medical_complications	1	0.36	0.360	0.0372	0.847511	
Patient_diagnosis	1	63.49	63.488	6.5600	0.012038	*
Post_visit_treament	1	3.80	3.801	0.3928	0.532385	
Type	1	3.14	3.144	0.3248	0.570085	
Vacc_status	1	0.11	0.106	0.0110	0.916800	
Fever	1	103.20	103.196	10.6629	0.001531	* *
SYMPTOM_COUGH	1	2.49	2.487	0.2570	0.613416	
Residuals	93	900.06	9.678			

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## 3.) Corynebacterium

Mean abundance: 10.0%

R^2: 0.5983

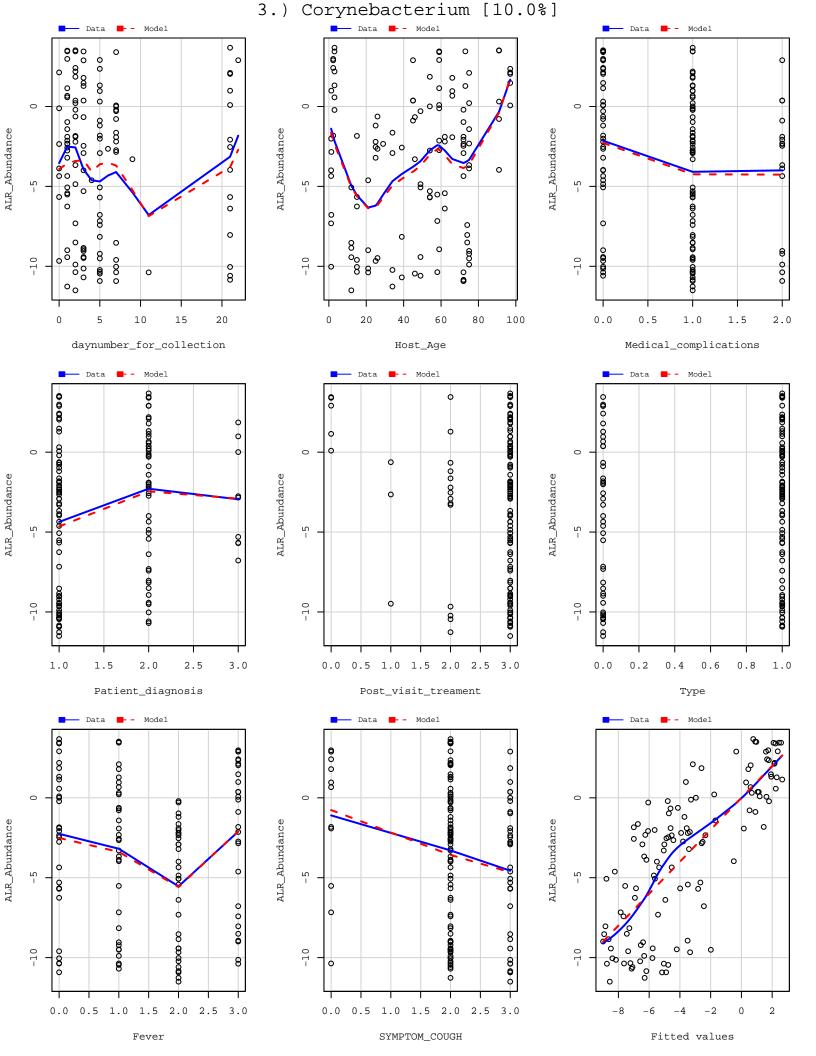
Adjusted R^2: 0.4687

Analysis of Variance Table

Response: ALR\_Abundance

	Df	Sum Sq	Mean Sq	F value	Pr(>F)	
Patient	20	1336.08	66.804	6.0459	7.189e-10	* * *
daynumber_for_collection	1	9.66	9.658	0.8741	0.35225	
Host_Age	1	1.66	1.659	0.1501	0.69931	
Host_Gender	1	24.86	24.864	2.2503	0.13698	
Medical_complications	1	13.02	13.023	1.1786	0.28046	
Patient_diagnosis	1	71.72	71.715	6.4903	0.01249	*
Post_visit_treament	1	55.43	55.432	5.0167	0.02749	*
Type	1	1.63	1.628	0.1474	0.70195	
Vacc_status	1	0.33	0.327	0.0296	0.86376	
Fever	1	15.46	15.463	1.3994	0.23984	
SYMPTOM_COUGH	1	0.72	0.717	0.0649	0.79955	
Residuals	93	1027.61	11.050			

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## 4.) Ochrobactrum

Mean abundance: 9.2%

R^2: 0.5783

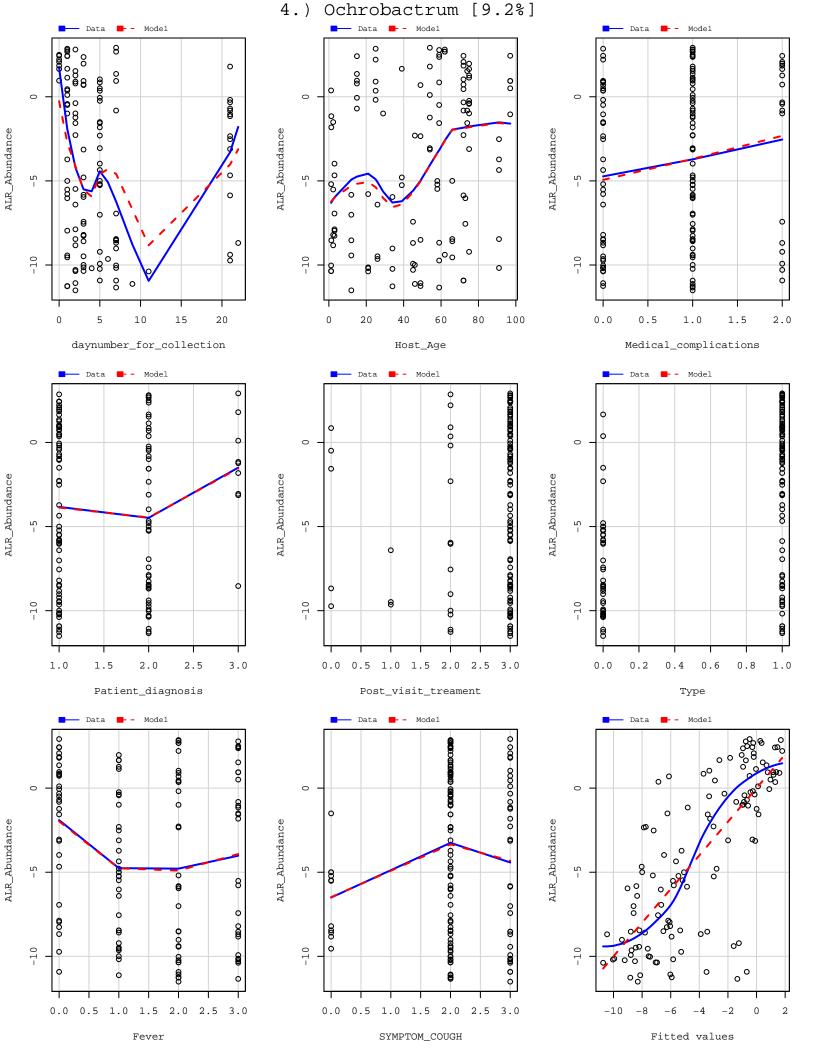
Adjusted R^2: 0.4422

Analysis of Variance Table

Response: ALR\_Abundance

	Df	Sum Sq	Mean Sq	F value	Pr(>F)	
Patient	20	516.14	25.81	2.0641	0.01075	*
${\tt daynumber\_for\_collection}$	1	16.27	16.27	1.3014	0.25689	
Host_Age	1	268.45	268.45	21.4706	1.167e-05	***
Host_Gender	1	72.50	72.50	5.7990	0.01801	*
Medical_complications	1	35.51	35.51	2.8400	0.09530	
Patient_diagnosis	1	65.87	65.87	5.2682	0.02397	*
Post_visit_treament	1	46.98	46.98	3.7575	0.05560	
Туре	1	530.78	530.78	42.4520	3.676e-09	***
Vacc_status	1	11.63	11.63	0.9301	0.33734	
Fever	1	18.57	18.57	1.4854	0.22602	
SYMPTOM_COUGH	1	11.74	11.74	0.9393	0.33497	
Residuals	93	1162.77	12.50			

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## 5.) family:Pseudomonadaceae

Mean abundance: 4.4%

R^2: 0.3721

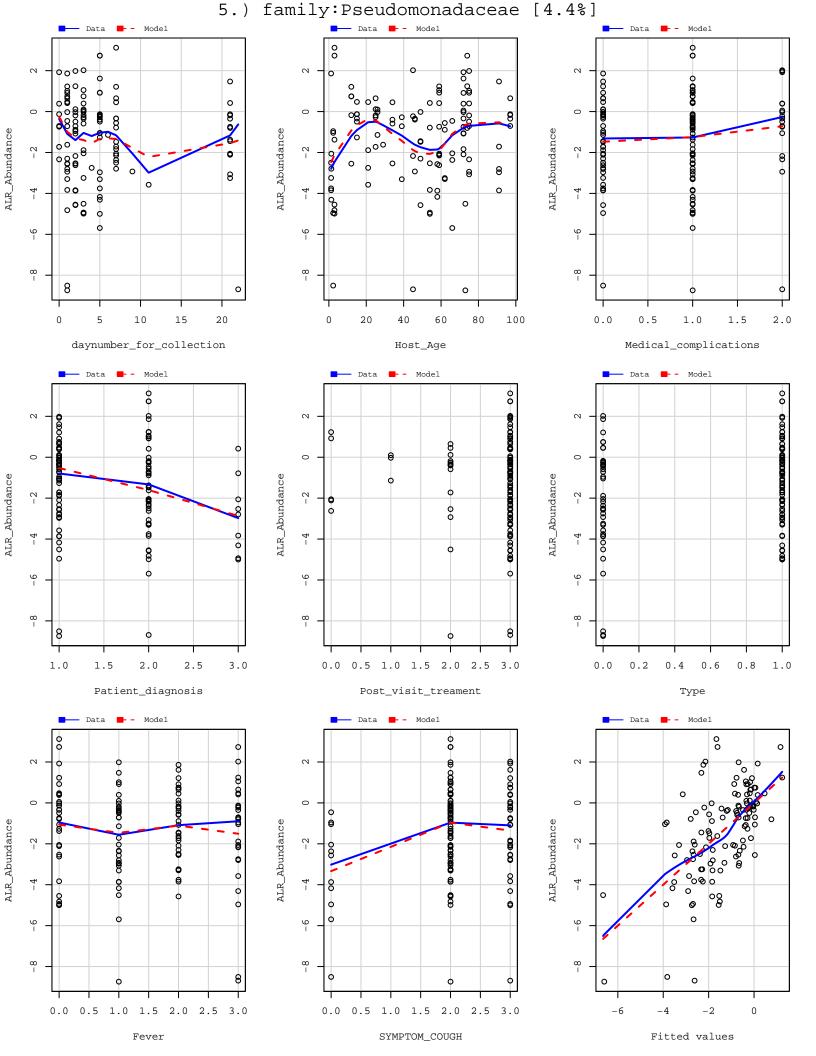
Adjusted R^2: 0.1696

Analysis of Variance Table

Response: ALR\_Abundance

	Df	Sum Sq	Mean Sq	F value	Pr(>F)	
Patient	20	146.85	7.343	1.7801	0.0343423	*
daynumber_for_collection	1	3.59	3.587	0.8696	0.3534671	
Host_Age	1	55.02	55.019	13.3390	0.0004296	* * *
Host_Gender	1	0.29	0.290	0.0703	0.7914747	
Medical_complications	1	2.34	2.338	0.5668	0.4534251	
Patient_diagnosis	1	5.16	5.157	1.2502	0.2663922	
Post_visit_treament	1	2.58	2.575	0.6244	0.4314284	
Type	1	1.58	1.580	0.3832	0.5374194	
Vacc_status	1	1.43	1.433	0.3474	0.5570109	
Fever	1	1.46	1.458	0.3534	0.5536414	
SYMPTOM_COUGH	1	7.07	7.070	1.7141	0.1936822	
Residuals	93	383.60	4.125			

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## 6.) Haemophilus

Mean abundance: 3.3%

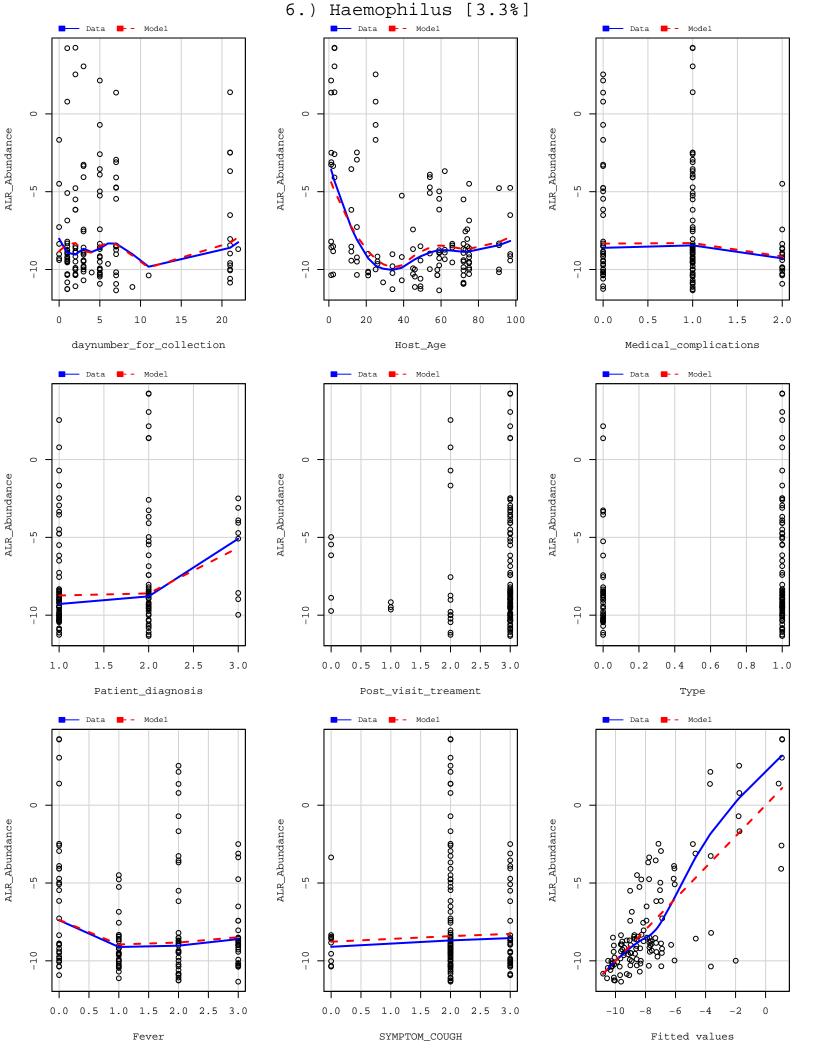
R^2: 0.6131

Adjusted R^2: 0.4883

Analysis of Variance Table

Response: ALR\_Abundance

	Df	Sum Sq	Mean Sq	F value	Pr(>F)	
Patient	20	682.41	34.120	5.1626	2.133e-08	* * *
daynumber_for_collection	1	0.80	0.798	0.1208	0.7289477	
Host_Age	1	29.17	29.168	4.4133	0.0383663	*
Host_Gender	1	6.99	6.989	1.0575	0.3064520	
Medical_complications	1	49.40	49.398	7.4743	0.0074931	* *
Patient_diagnosis	1	63.60	63.599	9.6229	0.0025446	* *
Post_visit_treament	1	26.80	26.805	4.0557	0.0469118	*
Type	1	103.48	103.480	15.6570	0.0001483	* * *
Vacc_status	1	9.24	9.243	1.3985	0.2399972	
Fever	1	1.23	1.233	0.1865	0.6668324	
SYMPTOM_COUGH	1	1.05	1.048	0.1585	0.6914291	
Residuals	93	614.65	6.609			



## 7.) family:Xanthomonadaceae

Mean abundance: 3.2%

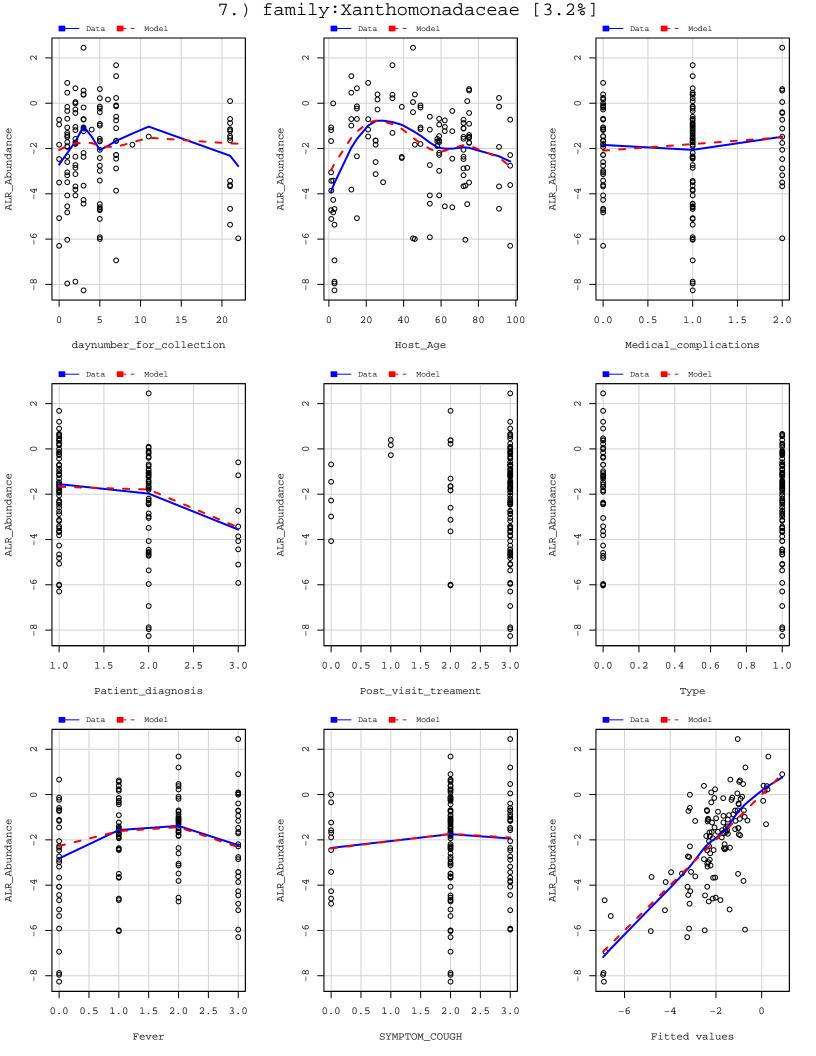
R^2: 0.5088

Adjusted R^2: 0.3503

Analysis of Variance Table

Response: ALR\_Abundance

	Df	Sum Sq	Mean Sq	F value	Pr(>F)	
Patient	20	211.327	10.5663	3.7644	6.788e-06	* * *
daynumber_for_collection	1	0.090	0.0899	0.0320	0.858355	
Host_Age	1	1.701	1.7014	0.6061	0.438224	
Host_Gender	1	4.023	4.0225	1.4331	0.234307	
Medical_complications	1	2.727	2.7266	0.9714	0.326894	
Patient_diagnosis	1	11.457	11.4572	4.0818	0.046224	*
Post_visit_treament	1	0.248	0.2485	0.0885	0.766731	
Туре	1	11.931	11.9314	4.2507	0.042024	*
Vacc_status	1	21.535	21.5349	7.6721	0.006771	* *
Fever	1	2.081	2.0811	0.7414	0.391424	
SYMPTOM_COUGH	1	3.278	3.2779	1.1678	0.282648	
Residuals	93	261.044	2.8069			



## 8.) Delftia

Mean abundance: 3.1%

R^2: 0.8867

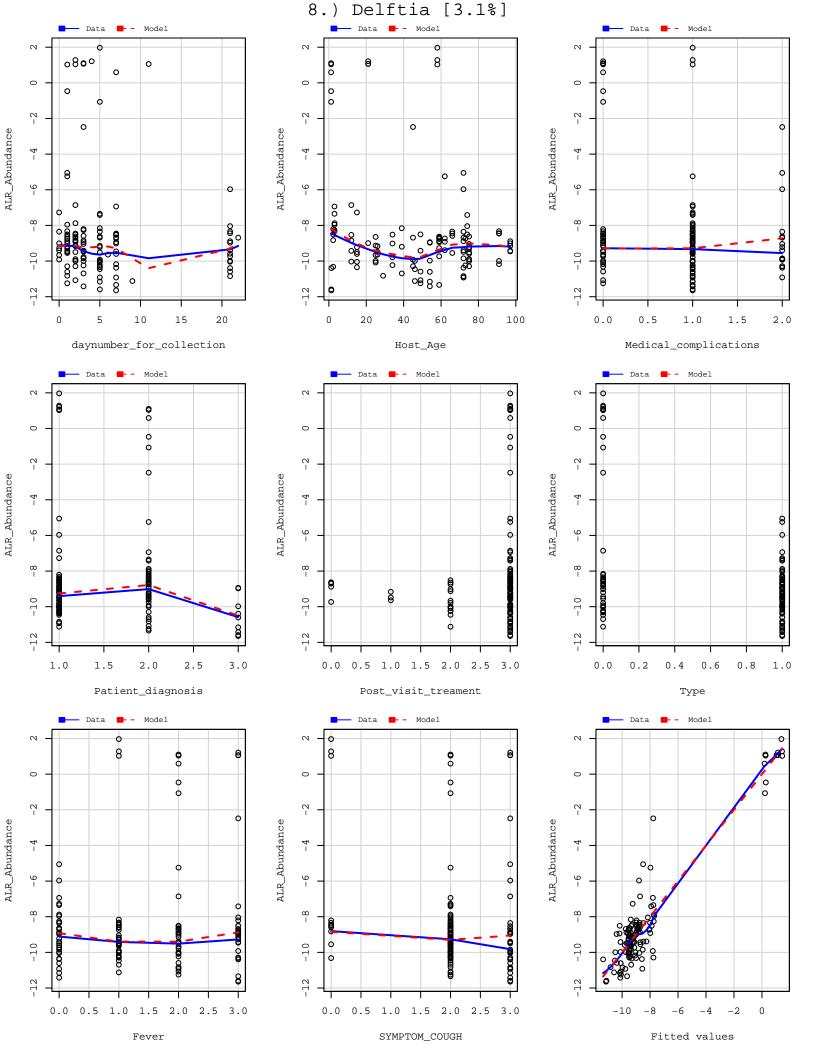
Adjusted R^2: 0.8501

Analysis of Variance Table

Response: ALR\_Abundance

	Df	Sum Sq	Mean Sq	F value	Pr(>F)	
Patient	20	620.52	31.026	20.9534	< 2.2e-16	* * *
daynumber_for_collection	1	0.28	0.281	0.1895	0.664356	
Host_Age	1	50.66	50.662	34.2146	7.303e-08	* * *
Host_Gender	1	16.82	16.821	11.3602	0.001094	* *
Medical_complications	1	117.06	117.065	79.0595	4.524e-14	* * *
Patient_diagnosis	1	0.75	0.748	0.5049	0.479153	
Post_visit_treament	1	152.21	152.214	102.7977	< 2.2e-16	***
Type	1	31.06	31.059	20.9754	1.440e-05	* * *
Vacc_status	1	3.58	3.585	2.4211	0.123105	
Fever	1	7.15	7.155	4.8318	0.030421	*
SYMPTOM_COUGH	1	77.36	77.364	52.2479	1.340e-10	***
Residuals	93	137.71	1.481			

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## 9.) Streptococcus

Mean abundance: 2.4%

R^2: 0.3757

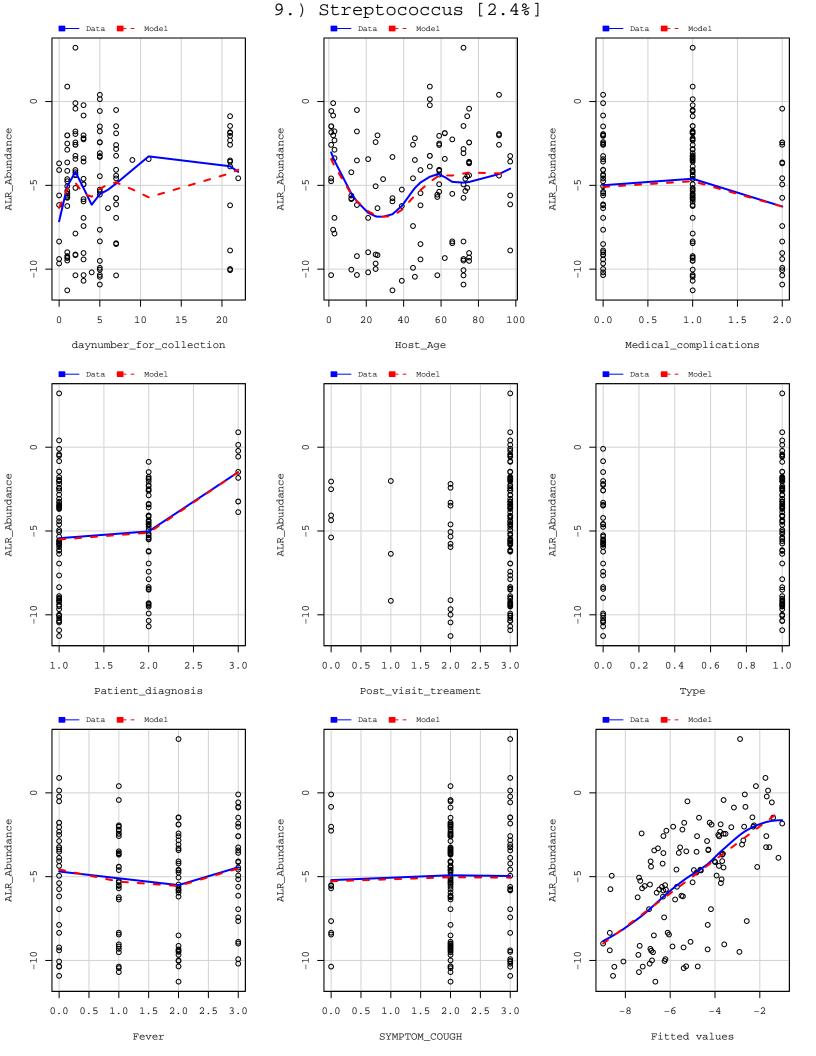
Adjusted R^2: 0.1743

Analysis of Variance Table

Response: ALR\_Abundance

	Df	Sum Sq	Mean Sq	F value	Pr(>F)	
Patient	20	377.87	18.8934	2.2321	0.005277	**
daynumber_for_collection	1	8.13	8.1323	0.9608	0.329536	
Host_Age	1	27.05	27.0500	3.1957	0.077088	
Host_Gender	1	1.84	1.8421	0.2176	0.641942	
Medical_complications	1	21.13	21.1267	2.4959	0.117535	
Patient_diagnosis	1	29.25	29.2508	3.4557	0.066195	
Post_visit_treament	1	4.72	4.7208	0.5577	0.457065	
Type	1	0.03	0.0326	0.0038	0.950662	
Vacc_status	1	0.61	0.6069	0.0717	0.789467	
Fever	1	0.11	0.1058	0.0125	0.911228	
SYMPTOM_COUGH	1	2.96	2.9606	0.3498	0.555678	
Residuals	93	787.19	8.4644			

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## 10.) Dyella

Mean abundance: 1.9%

R^2: 0.4149

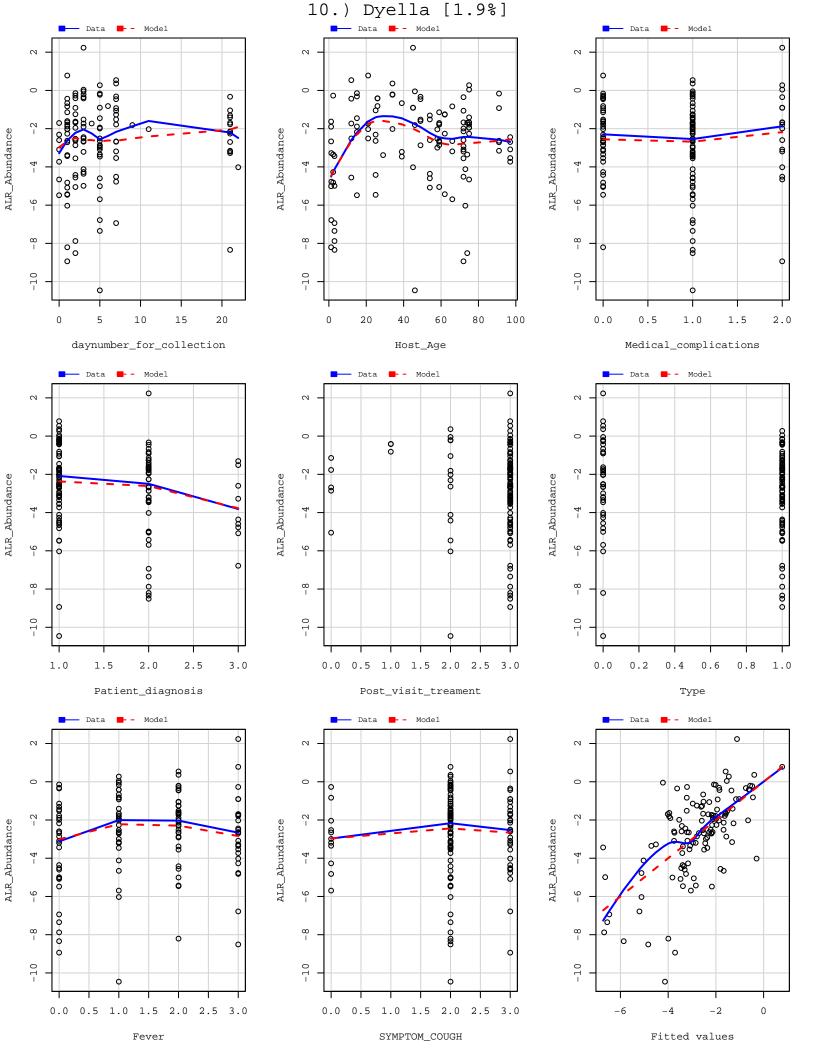
Adjusted R^2: 0.2261

Analysis of Variance Table

Response: ALR\_Abundance

	Df	Sum Sq	Mean Sq	F value	Pr(>F)	
Patient	20	156.60	7.830	2.1043	0.009074	* *
daynumber_for_collection	1	4.34	4.344	1.1676	0.282699	
Host_Age	1	3.02	3.016	0.8106	0.370275	
Host_Gender	1	8.23	8.232	2.2124	0.140288	
Medical_complications	1	0.03	0.028	0.0074	0.931515	
Patient_diagnosis	1	5.20	5.202	1.3979	0.240088	
Post_visit_treament	1	0.31	0.312	0.0839	0.772734	
Type	1	16.77	16.765	4.5057	0.036439	*
Vacc_status	1	36.05	36.048	9.6879	0.002464	**
Fever	1	7.73	7.726	2.0762	0.152967	
SYMPTOM_COUGH	1	7.10	7.102	1.9086	0.170428	
Residuals	93	346.05	3.721			

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## 11.) Stenotrophomonas

Mean abundance: 1.9%

R^2: 0.5818

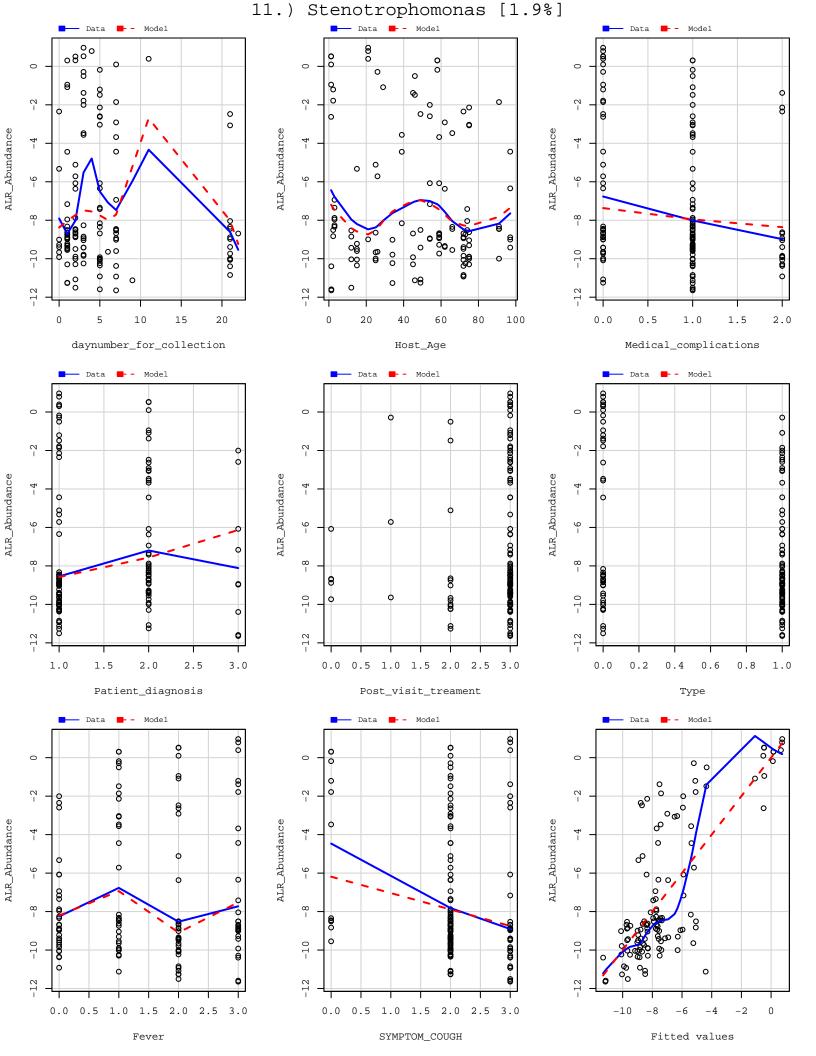
Adjusted R^2: 0.4468

Analysis of Variance Table

Response: ALR\_Abundance

	Df	Sum Sq	Mean Sq	F value	Pr(>F)	
Patient	20	586.60	29.330	4.0917	1.691e-06	***
${\tt daynumber\_for\_collection}$	1	0.68	0.683	0.0953	0.7582357	
Host_Age	1	80.65	80.652	11.2515	0.0011526	* *
Host_Gender	1	9.40	9.399	1.3113	0.2551052	
Medical_complications	1	12.86	12.862	1.7943	0.1836715	
Patient_diagnosis	1	3.84	3.837	0.5353	0.4662450	
Post_visit_treament	1	94.02	94.016	13.1158	0.0004767	* * *
Туре	1	35.70	35.705	4.9810	0.0280290	*
Vacc_status	1	11.30	11.299	1.5763	0.2124344	
Fever	1	21.02	21.024	2.9330	0.0901195	
SYMPTOM_COUGH	1	71.20	71.197	9.9324	0.0021855	* *
Residuals	93	666.64	7.168			

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## 12.) order:Rhizobiales

Mean abundance: 1.8%

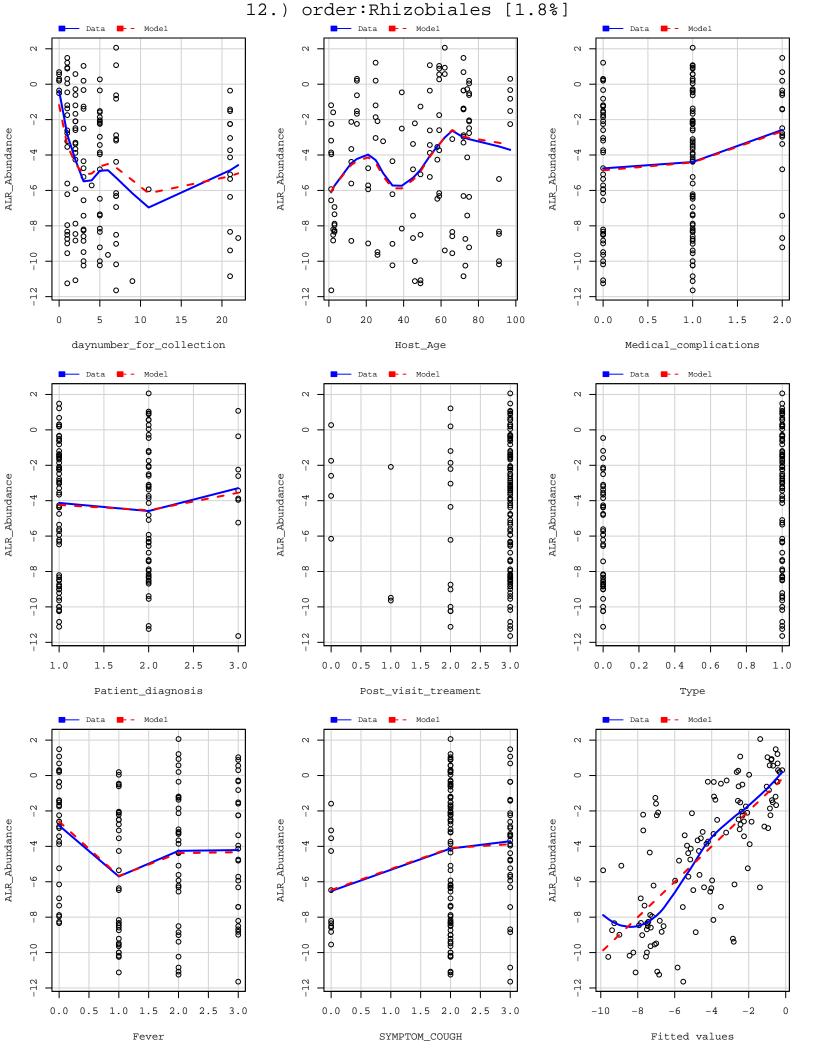
R^2: 0.5493

Adjusted R^2: 0.4039

Analysis of Variance Table

Response: ALR\_Abundance

	Df	Sum Sq	Mean Sq	F value	Pr(>F)	
Patient	20	508.68	25.434	3.1378	0.0001023	* * *
daynumber_for_collection	1	24.13	24.134	2.9774	0.0877581	
Host_Age	1	152.82	152.817	18.8529	3.592e-05	* * *
Host_Gender	1	13.95	13.947	1.7206	0.1928387	
Medical_complications	1	0.91	0.913	0.1126	0.7379233	
Patient_diagnosis	1	32.42	32.417	3.9992	0.0484391	*
Post_visit_treament	1	2.90	2.900	0.3578	0.5511824	
Type	1	168.05	168.049	20.7321	1.598e-05	***
Vacc_status	1	0.10	0.098	0.0120	0.9128788	
Fever	1	2.54	2.540	0.3133	0.5769924	
SYMPTOM_COUGH	1	12.17	12.172	1.5017	0.2235029	
Residuals	93	753.84	8.106			



## 13.) Dolosigranulum

Mean abundance: 1.5%

R^2: 0.6283

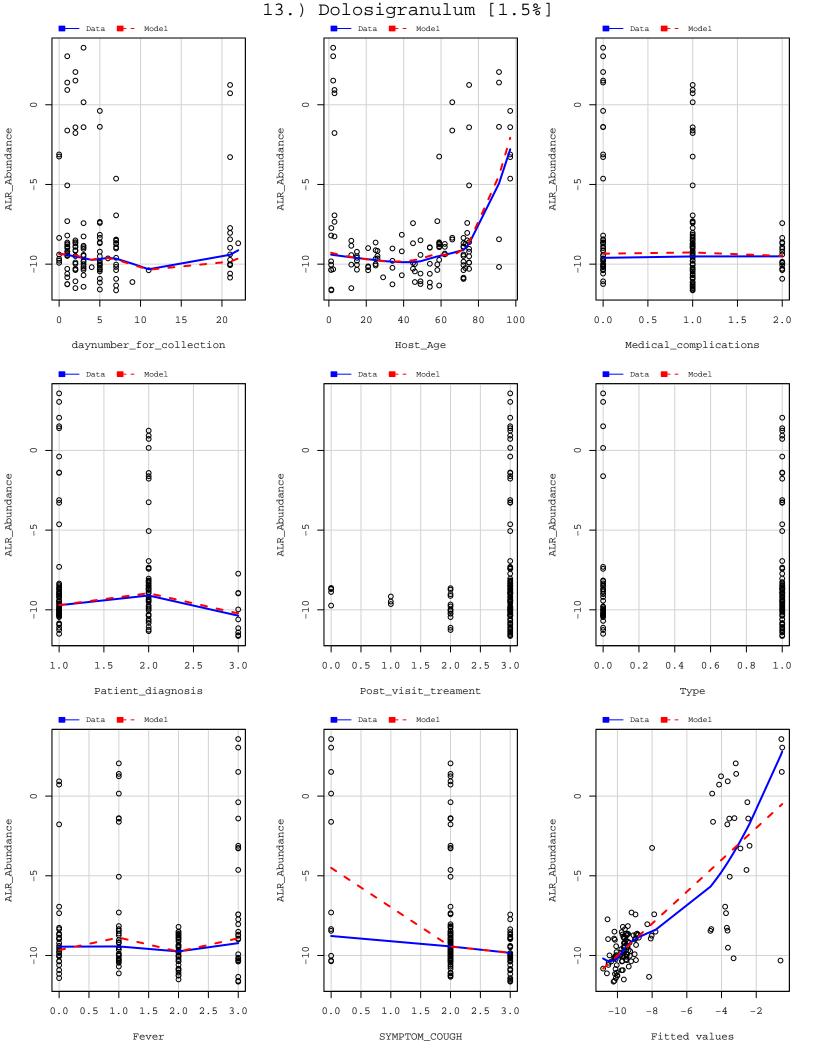
Adjusted R^2: 0.5084

Analysis of Variance Table

Response: ALR\_Abundance

	Df	Sum Sq	Mean Sq	F value	Pr(>F)	
Patient	20	955.03	47.752	7.6550	2.434e-12	* * *
daynumber_for_collection	1	3.41	3.414	0.5473	0.4613	
Host_Age	1	1.13	1.135	0.1819	0.6707	
Host_Gender	1	0.30	0.302	0.0484	0.8264	
Medical_complications	1	4.43	4.428	0.7099	0.4017	
Patient_diagnosis	1	0.00	0.003	0.0005	0.9821	
Post_visit_treament	1	2.60	2.597	0.4163	0.5204	
Type	1	0.22	0.224	0.0359	0.8501	
Vacc_status	1	12.40	12.399	1.9876	0.1619	
Fever	1	0.14	0.139	0.0224	0.8815	
SYMPTOM_COUGH	1	0.94	0.936	0.1501	0.6993	
Residuals	93	580.13	6.238			

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## 14.) Achromobacter

Mean abundance: 1.4%

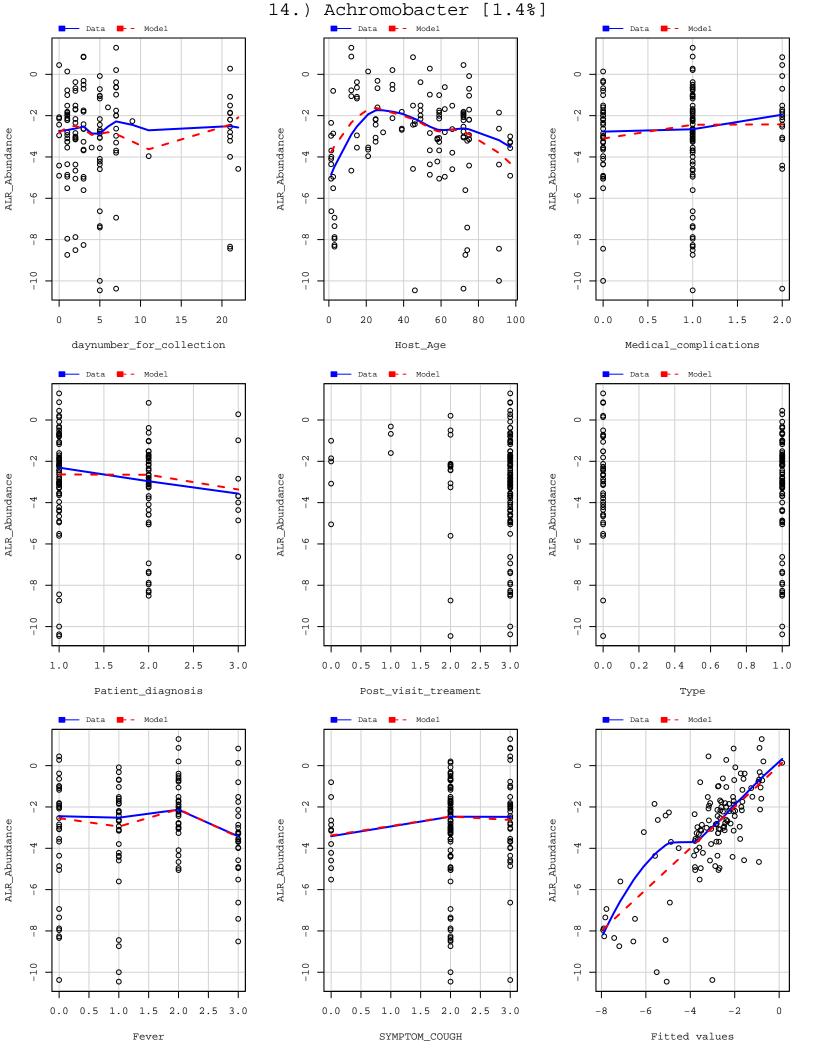
R^2: 0.5318

Adjusted R^2: 0.3808

Analysis of Variance Table

Response: ALR\_Abundance

	Df	Sum Sq	Mean Sq	F value	Pr(>F)	
Patient	20	311.86	15.5929	4.4049	4.572e-07	* * *
daynumber_for_collection	1	0.68	0.6833	0.1930	0.661425	
Host_Age	1	3.27	3.2739	0.9249	0.338695	
Host_Gender	1	11.80	11.8022	3.3341	0.071067	
Medical_complications	1	0.66	0.6643	0.1877	0.665862	
Patient_diagnosis	1	3.49	3.4934	0.9869	0.323088	
Post_visit_treament	1	0.42	0.4196	0.1185	0.731410	
Type	1	0.15	0.1482	0.0419	0.838346	
Vacc_status	1	28.85	28.8534	8.1510	0.005307	* *
Fever	1	0.93	0.9256	0.2615	0.610313	
SYMPTOM_COUGH	1	11.82	11.8249	3.3405	0.070800	
Residuals	93	329.21	3.5399			



## 15.) Propionibacterium

Mean abundance: 0.9%

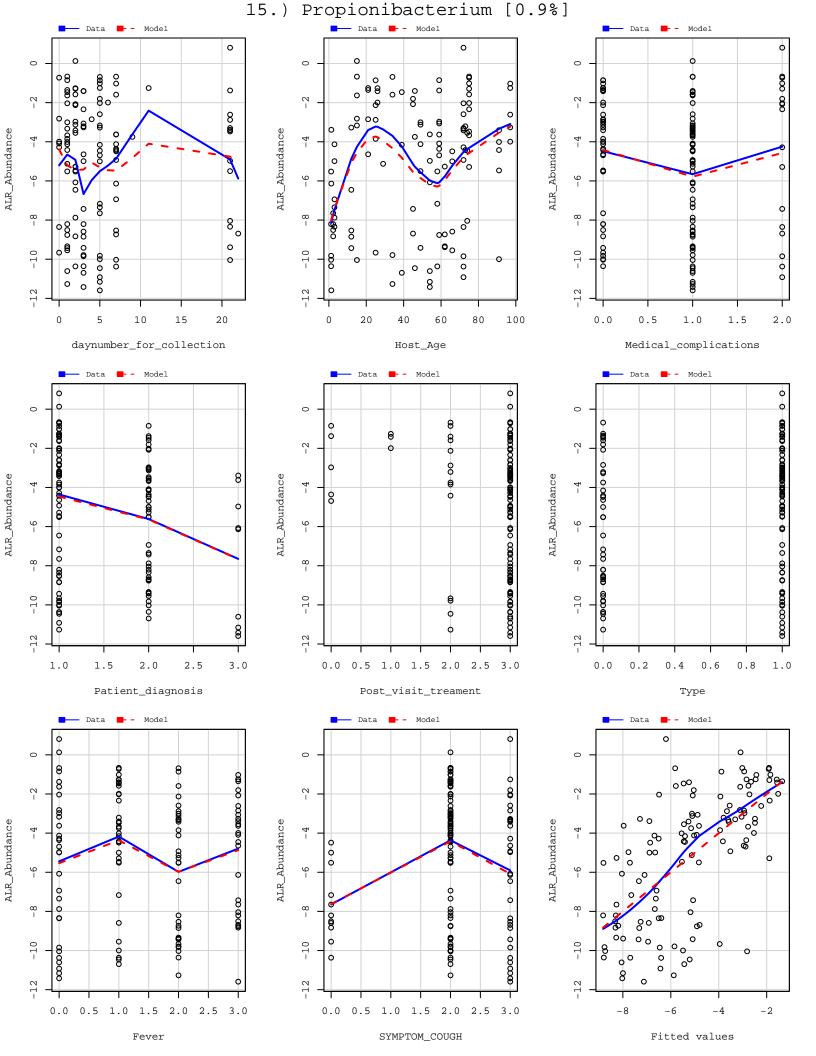
R^2: 0.4139

Adjusted R^2: 0.2248

Analysis of Variance Table

Response: ALR\_Abundance

	Df	Sum Sq	Mean Sq	F value	Pr(>F)	
Patient	20	356.07	17.804	2.1047	0.009061	* *
daynumber_for_collection	1	3.38	3.380	0.3996	0.528838	
Host_Age	1	84.26	84.255	9.9602	0.002156	* *
Host_Gender	1	11.88	11.885	1.4049	0.238918	
Medical_complications	1	0.01	0.014	0.0016	0.968178	
Patient_diagnosis	1	0.21	0.210	0.0248	0.875112	
Post_visit_treament	1	26.69	26.693	3.1555	0.078941	
Type	1	28.65	28.655	3.3874	0.068884	
Vacc_status	1	1.81	1.809	0.2138	0.644862	
Fever	1	40.54	40.539	4.7924	0.031089	*
SYMPTOM_COUGH	1	1.99	1.993	0.2356	0.628523	
Residuals	93	786.70	8.459			



## 16.) Rhizobium

Mean abundance: 0.9%

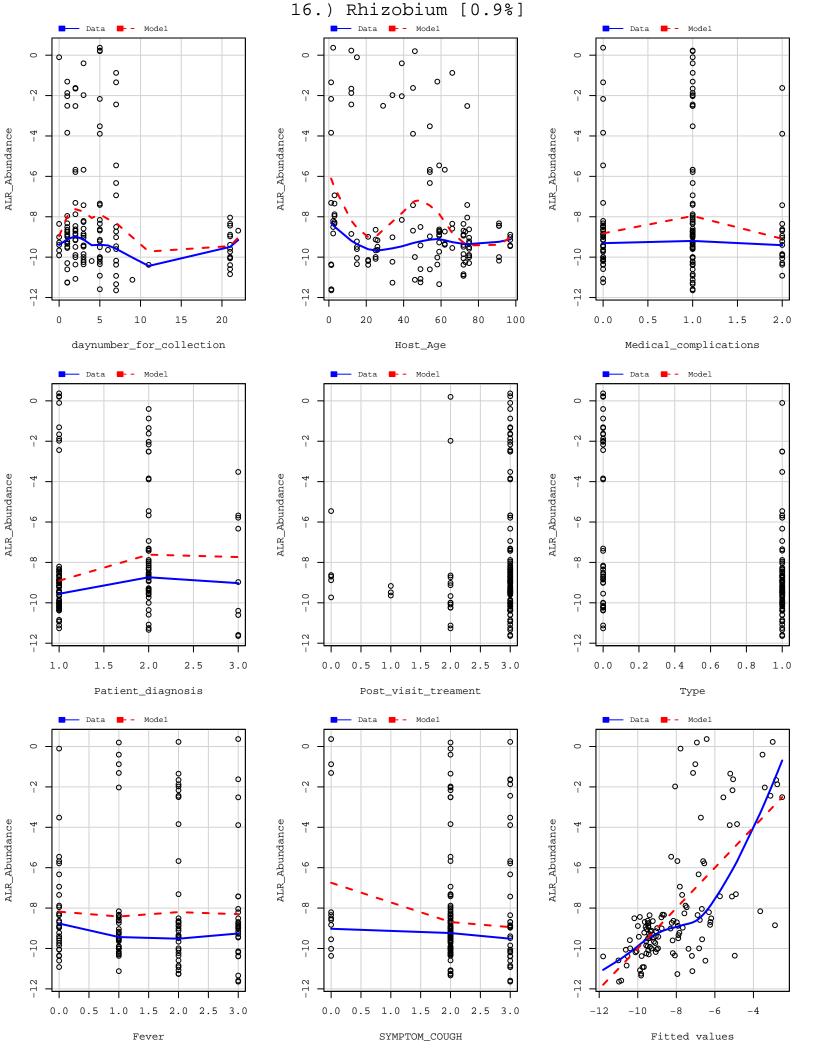
R^2: 0.4558

Adjusted R^2: 0.2802

Analysis of Variance Table

Response: ALR\_Abundance

	Df	Sum Sq	Mean Sq	F value	Pr(>F)	
Patient	20	266.34	13.317	1.9805	0.015219	*
daynumber_for_collection	1	24.76	24.761	3.6825	0.058054	
Host_Age	1	57.99	57.990	8.6242	0.004181	* *
Host_Gender	1	125.82	125.824	18.7123	3.819e-05	* * *
Medical_complications	1	2.46	2.464	0.3664	0.546423	
Patient_diagnosis	1	0.09	0.085	0.0127	0.910573	
Post_visit_treament	1	32.88	32.878	4.8895	0.029471	*
Type	1	6.88	6.877	1.0228	0.314483	
Vacc_status	1	5.67	5.670	0.8432	0.360845	
Fever	1	0.11	0.108	0.0160	0.899580	
SYMPTOM_COUGH	1	0.67	0.675	0.1003	0.752152	
Residuals	93	625.34	6.724			



## 17.) Moraxella

Mean abundance: 0.7%

R^2: 0.6514

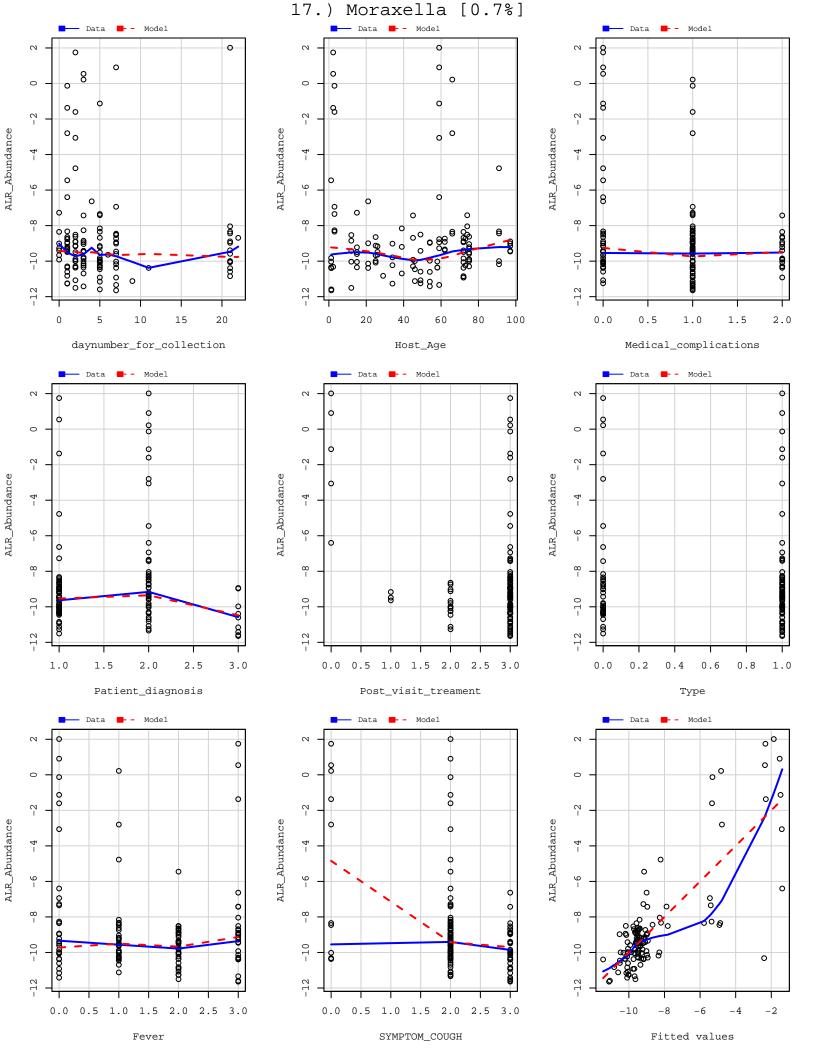
Adjusted R^2: 0.5390

Analysis of Variance Table

Response: ALR\_Abundance

	Df	Sum Sq	Mean Sq	F value	Pr(>F)	
Patient	20	543.60	27.180	7.1682	1.277e-11	* * *
daynumber_for_collection	1	6.34	6.338	1.6716	0.199252	
Host_Age	1	63.75	63.752	16.8135	8.822e-05	* * *
Host_Gender	1	0.01	0.011	0.0028	0.957618	
Medical_complications	1	6.40	6.403	1.6886	0.197002	
Patient_diagnosis	1	7.97	7.969	2.1018	0.150494	
Post_visit_treament	1	0.00	0.003	0.0008	0.976839	
Type	1	1.78	1.782	0.4699	0.494743	
Vacc_status	1	28.92	28.922	7.6277	0.006926	* *
Fever	1	0.19	0.192	0.0505	0.822672	
SYMPTOM_COUGH	1	0.00	0.003	0.0007	0.978618	
Residuals	93	352.63	3.792			

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## 18.) Prevotella

Mean abundance: 0.6%

R^2: 0.5037

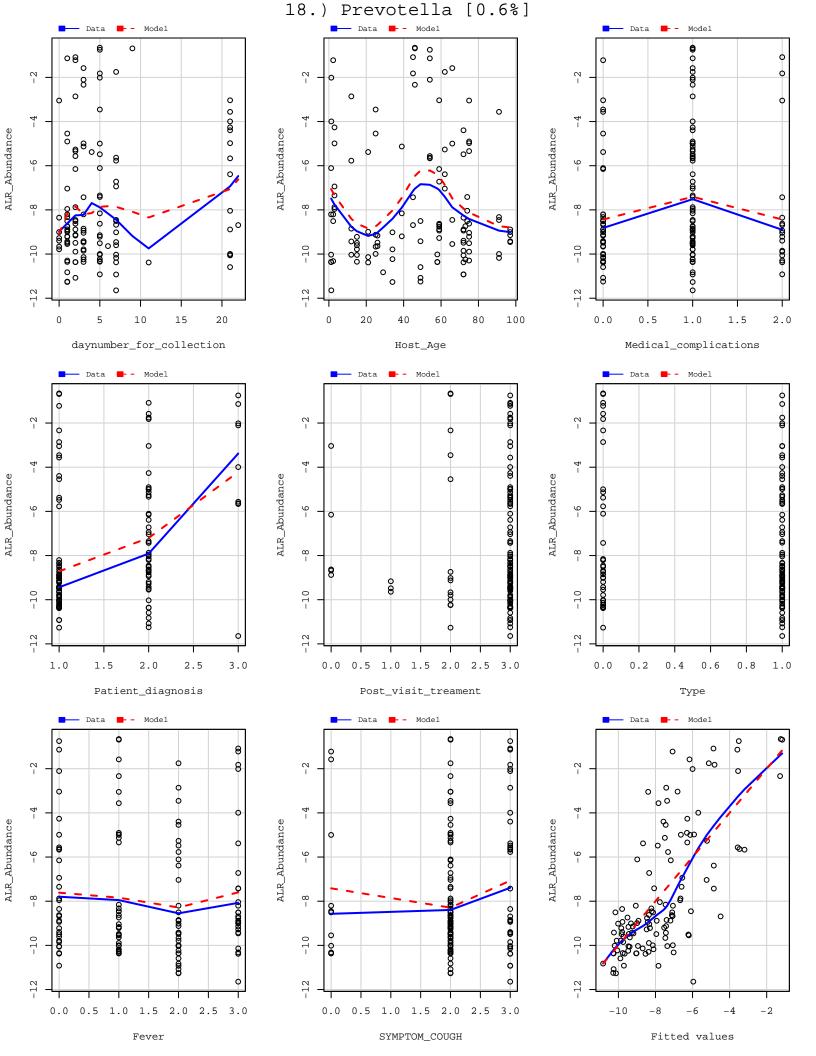
Adjusted R^2: 0.3435

Analysis of Variance Table

Response: ALR\_Abundance

	Df	Sum Sq	Mean Sq	F value	Pr(>F)	
Patient	20	366.02	18.301	3.3381	4.274e-05	* * *
daynumber_for_collection	1	3.34	3.337	0.6086	0.43729	
Host_Age	1	36.39	36.392	6.6379	0.01156	*
Host_Gender	1	19.28	19.276	3.5159	0.06392	
Medical_complications	1	5.90	5.902	1.0765	0.30217	
Patient_diagnosis	1	12.09	12.095	2.2060	0.14085	
Post_visit_treament	1	33.88	33.882	6.1800	0.01471	*
Type	1	28.84	28.838	5.2600	0.02407	*
Vacc_status	1	6.72	6.719	1.2256	0.27112	
Fever	1	4.87	4.869	0.8880	0.34846	
SYMPTOM_COUGH	1	0.05	0.052	0.0094	0.92284	
Residuals	93	509.87	5.482			

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## 19.) order:Actinomycetales

Mean abundance: 0.6%

R^2: 0.5465

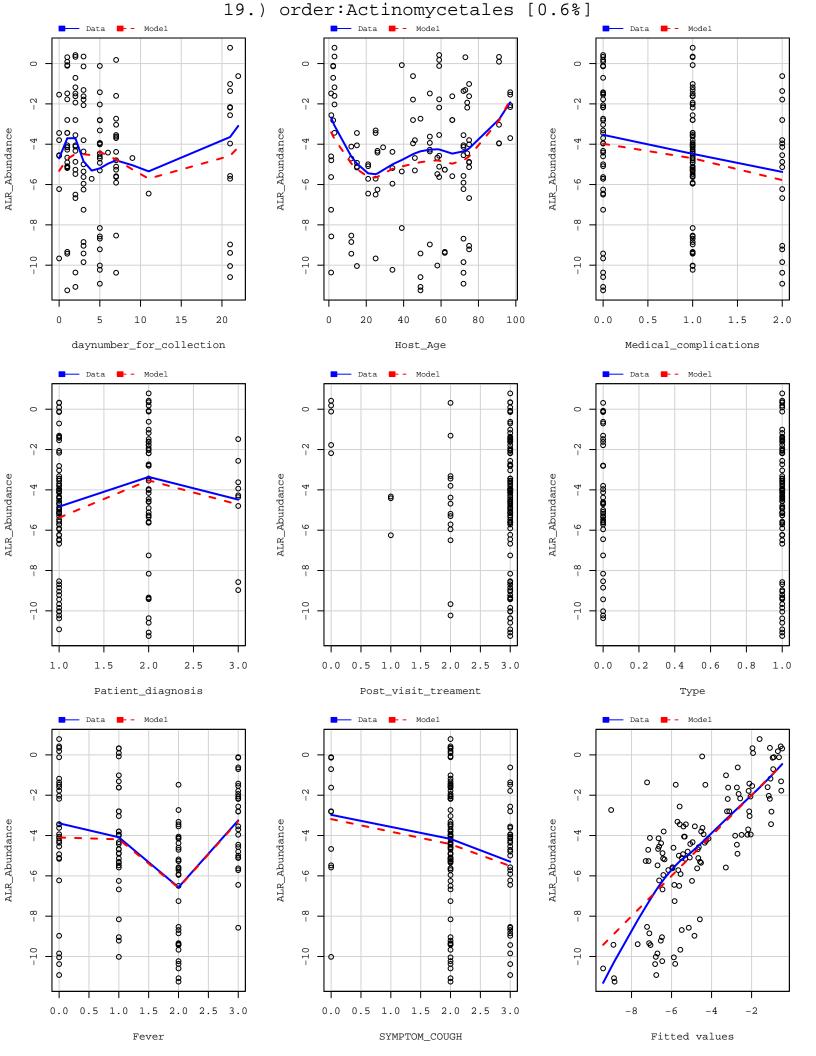
Adjusted R^2: 0.4002

Analysis of Variance Table

Response: ALR\_Abundance

	Df	Sum Sq	Mean Sq	F value	Pr(>F)	
Patient	20	532.29	26.6143	4.8381	7.79e-08	* * *
${\tt daynumber\_for\_collection}$	1	1.96	1.9608	0.3564	0.55194	
Host_Age	1	9.13	9.1337	1.6604	0.20075	
Host_Gender	1	2.31	2.3125	0.4204	0.51835	
Medical_complications	1	10.42	10.4183	1.8939	0.17207	
Patient_diagnosis	1	4.05	4.0539	0.7369	0.39285	
Post_visit_treament	1	14.91	14.9140	2.7111	0.10302	
Type	1	17.81	17.8089	3.2374	0.07522	
Vacc_status	1	1.67	1.6659	0.3028	0.58343	
Fever	1	21.78	21.7843	3.9601	0.04953	*
SYMPTOM_COUGH	1	0.18	0.1770	0.0322	0.85801	
Residuals	93	511.59	5.5010			

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## 20.) Rhodococcus

Mean abundance: 0.5%

R^2: 0.4955

Adjusted R^2: 0.3328

Analysis of Variance Table

Response: ALR\_Abundance

	Df	Sum Sq	Mean Sq	F value	Pr(>F)	
Patient	20	488.92	24.4462	3.7728	6.549e-06	***
daynumber_for_collection	1	2.75	2.7477	0.4241	0.51653	
Host_Age	1	21.63	21.6280	3.3378	0.07091	
Host_Gender	1	23.18	23.1846	3.5781	0.06166	
Medical_complications	1	0.61	0.6059	0.0935	0.76045	
Patient_diagnosis	1	0.82	0.8161	0.1260	0.72347	
Post_visit_treament	1	25.37	25.3719	3.9156	0.05080	
Type	1	0.43	0.4345	0.0671	0.79624	
Vacc_status	1	27.18	27.1844	4.1954	0.04335	*
Fever	1	0.04	0.0358	0.0055	0.94089	
SYMPTOM_COUGH	1	1.04	1.0387	0.1603	0.68980	
Residuals	93	602.61	6.4797			

