

Supplementary Material

1 SUPPLEMENTARY TABLES AND FIGURES

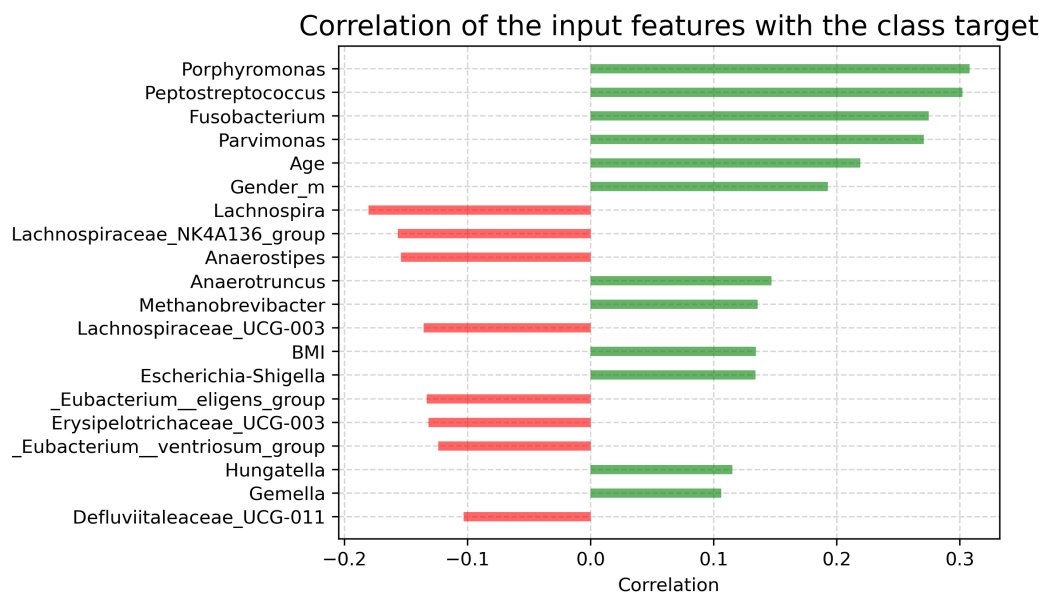


Figure S1: Representation of the top 20 features ranked according to the correlation coefficient between each variable and the target class.

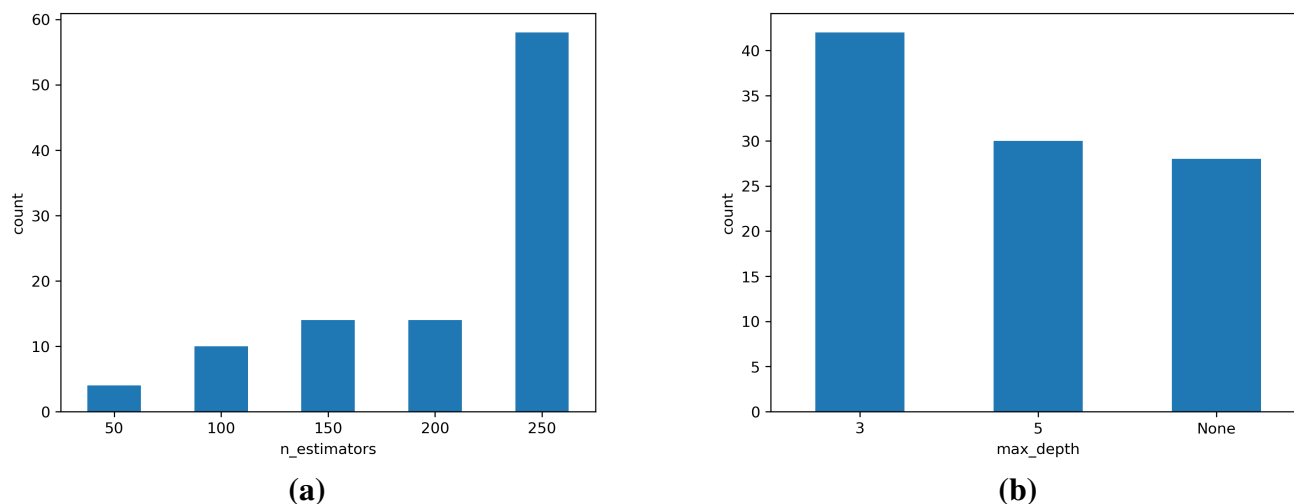


Figure S2: Stability analysis of tuned parameters in nested cross-validation for RF: (a) n_estimators (b) max_depth.

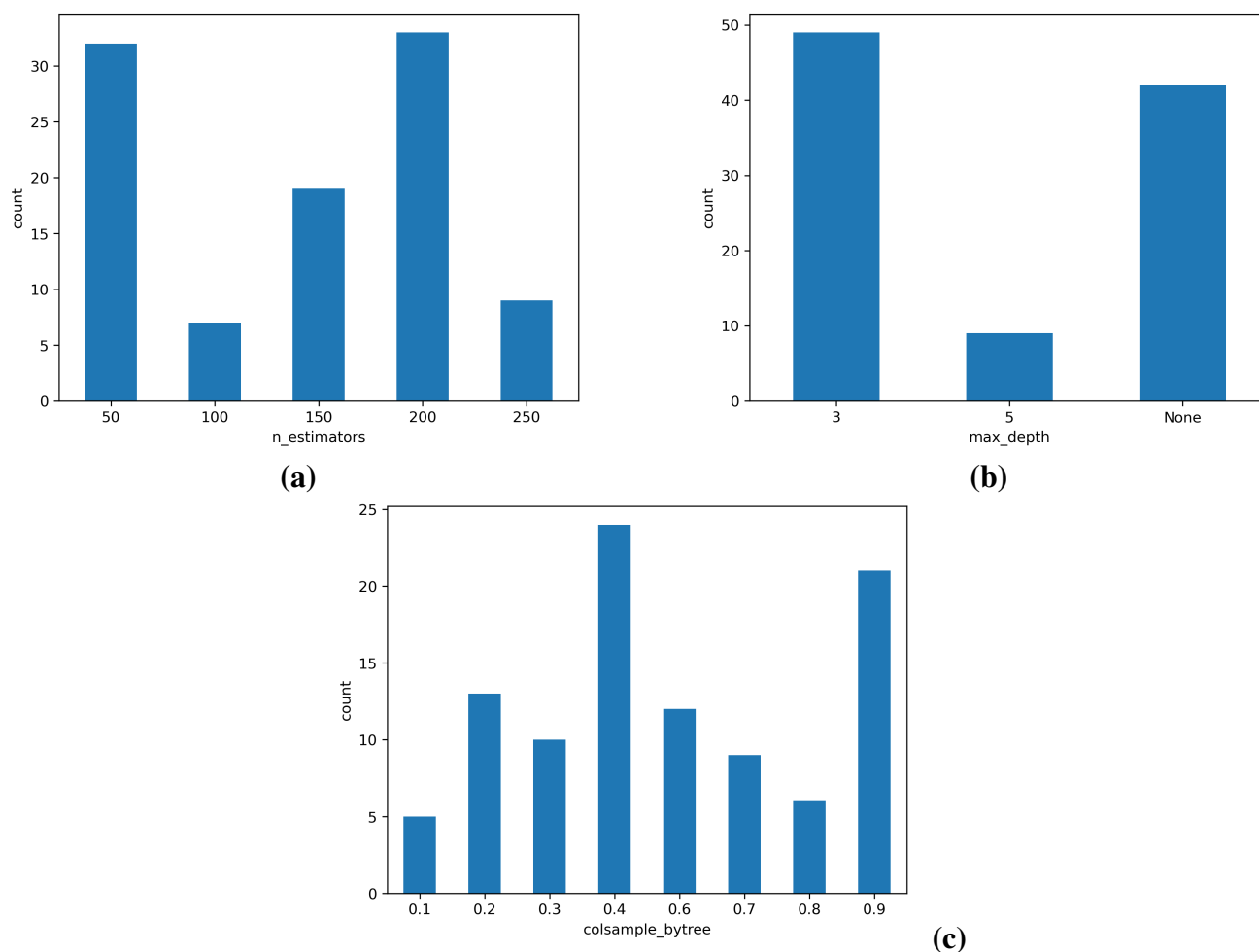


Figure S3: Stability analysis of tuned parameters in nested cross-validation for XGBoost: (a) **n_estimators** (b) **max_depth** (c) **colsample_bytree**.

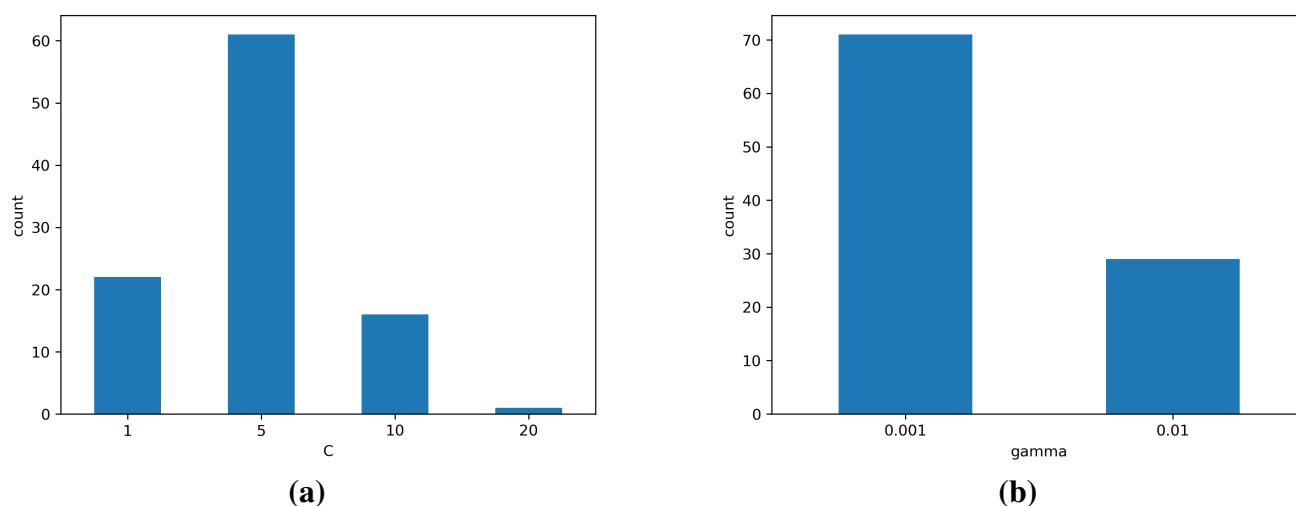


Figure S4: Stability analysis of tuned parameters in nested cross-validation for SVM: (a) **C** (b) **gamma**.

Table S1: Metadata information about subjects involved in the analysis.

SampleID	Diagnosis	Study	Country	Age	BMI	Gender_m
Cancer1-2355	Cancer	Zackular	USA	70	23.0	1
Cancer10-2567	Cancer	Zackular	USA	69	27.0	1
Cancer11-2573	Cancer	Zackular	USA	47	26.0	0
Cancer12-2575	Cancer	Zackular	USA	67	32.0	0
Cancer13-2579	Cancer	Zackular	USA	55	57.0	1
Cancer14-2611	Cancer	Zackular	USA	49		1
Cancer15-2613	Cancer	Zackular	USA	61	35.0	1
Cancer16-2619	Cancer	Zackular	USA	63	31.0	1
Cancer17-2625	Cancer	Zackular	USA	43	24.0	1
Cancer18-2629	Cancer	Zackular	USA	52	29.0	1
Cancer19-2633	Cancer	Zackular	USA	71	32.0	1
Cancer2-2455	Cancer	Zackular	USA	59	29.0	1
Cancer20-2667	Cancer	Zackular	USA	58	30.0	1
Cancer21-2671	Cancer	Zackular	USA	60	33.0	1
Cancer22-2703	Cancer	Zackular	USA	51	24.0	0
Cancer23-2705	Cancer	Zackular	USA	64	24.0	0
Cancer24-2727	Cancer	Zackular	USA	48	33.0	1
Cancer25-2735	Cancer	Zackular	USA	60	28.0	0
Cancer26-2763	Cancer	Zackular	USA	43	46.0	1
Cancer27-2771	Cancer	Zackular	USA	59	30.0	0
Cancer28-2777	Cancer	Zackular	CA	73	22.0	0
Cancer29-2801	Cancer	Zackular	USA	59	23.0	1
Cancer3-2513	Cancer	Zackular	USA	69	28.0	1
Cancer30-2863	Cancer	Zackular	CA	57	34.0	1
Cancer4-2521	Cancer	Zackular	USA	88	26.0	1
Cancer5-2523	Cancer	Zackular	USA	37	35.0	1
Cancer6-2535	Cancer	Zackular	USA	69	26.0	1
Cancer7-2537	Cancer	Zackular	USA	74	32.0	0
Cancer8-2543	Cancer	Zackular	USA	56	33.0	1
Cancer9-2547	Cancer	Zackular	USA	51	35.0	0
ERR475468	Normal	Zeller	FRA	74	27.0	1
ERR475469	Normal	Zeller	FRA	54	26.0	1
ERR475470	Normal	Zeller	FRA	65	30.0	1
ERR475471	Normal	Zeller	FRA	57	24.0	1
ERR475473	Normal	Zeller	FRA	53	30.0	0
ERR475474	Normal	Zeller	FRA	62	21.0	0
ERR475476	Normal	Zeller	FRA	53	32.0	1
ERR475477	Normal	Zeller	FRA	68	26.0	1
ERR475478	Normal	Zeller	FRA	59	25.0	0
ERR475480	Normal	Zeller	FRA	72	24.0	1
ERR475481	Normal	Zeller	FRA	55	20.0	0
ERR475482	Cancer	Zeller	FRA	72	37.0	0

ERR475483	Normal	Zeller	FRA	63	27.0	0
ERR475484	Normal	Zeller	FRA	69	25.0	0
ERR475485	Normal	Zeller	FRA	61	24.0	0
ERR475486	Normal	Zeller	FRA	68	25.0	0
ERR475487	Normal	Zeller	FRA	63	21.0	0
ERR475488	Normal	Zeller	FRA	62	24.0	1
ERR475491	Normal	Zeller	FRA	64	27.0	1
ERR475492	Normal	Zeller	FRA	65	24.0	0
ERR475493	Cancer	Zeller	FRA	62	21.0	0
ERR475494	Normal	Zeller	FRA	59	25.0	0
ERR475495	Normal	Zeller	FRA	70	25.0	1
ERR475497	Normal	Zeller	FRA	66	28.0	0
ERR475499	Normal	Zeller	FRA	63	25.0	1
ERR475500	Cancer	Zeller	FRA	58	24.0	1
ERR475501	Cancer	Zeller	FRA	63	22.0	1
ERR475503	Normal	Zeller	FRA	67	27.0	1
ERR475504	Normal	Zeller	FRA	61	23.0	0
ERR475508	Normal	Zeller	FRA	71	23.0	0
ERR475509	Cancer	Zeller	FRA	79	30.0	1
ERR475512	Normal	Zeller	FRA	63		1
ERR475513	Cancer	Zeller	FRA	50	24.0	0
ERR475514	Normal	Zeller	FRA	84	23.0	1
ERR475515	Cancer	Zeller	FRA	73	24.0	0
ERR475516	Cancer	Zeller	FRA	59	27.0	1
ERR475517	Normal	Zeller	FRA	50	25.0	1
ERR475519	Normal	Zeller	FRA	62	23.0	1
ERR475520	Cancer	Zeller	FRA	73	26.0	0
ERR475521	Cancer	Zeller	FRA	48	24.0	0
ERR475522	Normal	Zeller	FRA	61	23.0	1
ERR475523	Normal	Zeller	FRA	61	34.0	0
ERR475524	Normal	Zeller	FRA	67	23.0	0
ERR475525	Normal	Zeller	FRA	63	22.0	0
ERR475526	Normal	Zeller	FRA	67	21.0	1
ERR475527	Cancer	Zeller	FRA	63	25.0	1
ERR475529	Cancer	Zeller	FRA	80	29.0	1
ERR475531	Cancer	Zeller	FRA	44	20.0	1
ERR475532	Cancer	Zeller	FRA	78	19.0	1
ERR475533	Cancer	Zeller	FRA	63	29.0	1
ERR475534	Normal	Zeller	FRA	77	22.0	0
ERR475539	Cancer	Zeller	FRA	87	15.0	0
ERR475540	Cancer	Zeller	FRA	73	17.0	1
ERR475541	Cancer	Zeller	FRA	60	26.0	1
ERR475545	Normal	Zeller	FRA	46	29.0	0

ERR475547	Cancer	Zeller	FRA	72	22.0	1
ERR475548	Cancer	Zeller	FRA	55	25.0	0
ERR475549	Normal	Zeller	FRA	67	28.0	0
ERR475550	Normal	Zeller	FRA	35	23.0	1
ERR475553	Cancer	Zeller	FRA	80	23.0	0
ERR475555	Cancer	Zeller	FRA	51	24.0	1
ERR475557	Cancer	Zeller	FRA	51	30.0	1
ERR475560	Cancer	Zeller	FRA	67	25.0	1
ERR475562	Normal	Zeller	FRA	65	30.0	1
ERR475563	Normal	Zeller	FRA	67	25.0	1
ERR475564	Normal	Zeller	FRA	52	24.0	1
ERR475565	Normal	Zeller	FRA	60	28.0	0
ERR475566	Normal	Zeller	FRA	49	23.0	0
ERR475567	Normal	Zeller	FRA	62	20.0	0
ERR475568	Cancer	Zeller	FRA	45	28.0	0
ERR475569	Cancer	Zeller	FRA	79	22.0	0
ERR475570	Normal	Zeller	FRA	72	25.0	0
ERR475571	Normal	Zeller	FRA	64	30.0	0
ERR475572	Normal	Zeller	FRA	38	22.0	0
ERR475573	Cancer	Zeller	FRA	64	30.0	1
ERR475574	Normal	Zeller	FRA	66	25.0	1
ERR475575	Normal	Zeller	FRA	74	27.0	1
ERR475576	Cancer	Zeller	FRA	69	24.0	0
ERR475577	Cancer	Zeller	FRA	69	30.0	0
ERR475578	Cancer	Zeller	FRA	75	37.0	1
ERR475579	Cancer	Zeller	FRA	69	25.0	0
ERR475580	Cancer	Zeller	FRA	68	23.0	1
ERR475581	Cancer	Zeller	FRA	65	26.0	1
ERR475582	Cancer	Zeller	FRA	62	26.0	1
ERR475585	Cancer	Zeller	FRA	73	40.0	1
ERR475586	Cancer	Zeller	FRA	74	19.0	0
ERR475588	Cancer	Zeller	FRA	74	26.0	0
ERR475589	Cancer	Zeller	FRA	65	24.0	1
ERR475591	Cancer	Zeller	FRA	53	25.0	1
ERR475592	Cancer	Zeller	FRA	67	28.0	1
ERR475594	Cancer	Zeller	FRA	54	22.0	0
Healthy1-2027	Normal	Zackular	CA	65	22.0	0
Healthy10-3087	Normal	Zackular	USA	51	25.0	1
Healthy11-3123	Normal	Zackular	USA	55	38.0	0
Healthy12-3211	Normal	Zackular	USA	51	30.0	0
Healthy13-3241	Normal	Zackular	USA	45	33.0	0
Healthy14-3245	Normal	Zackular	USA	61	21.0	0
Healthy15-3247	Normal	Zackular	USA	51	21.0	0

Healthy16-3251	Normal	Zackular	USA	57	24.0	0
Healthy17-3257	Normal	Zackular	USA	65	33.0	1
Healthy18-3293	Normal	Zackular	USA	52	32.0	0
Healthy19-3339	Normal	Zackular	USA	54	34.0	0
Healthy2-2779	Normal	Zackular	CA	69	19.0	0
Healthy20-3341	Normal	Zackular	USA	75	24.0	0
Healthy21-3347	Normal	Zackular	USA	61	25.0	1
Healthy22-3363	Normal	Zackular	USA	58	29.0	1
Healthy23-3367	Normal	Zackular	USA	56	21.0	0
Healthy24-3403	Normal	Zackular	USA	51	21.0	1
Healthy25-3405	Normal	Zackular	USA	42	28.0	1
Healthy26-3407	Normal	Zackular	USA	49	25.0	1
Healthy27-3439	Normal	Zackular	USA	53	22.0	0
Healthy28-3499	Normal	Zackular	USA	46	21.0	0
Healthy29-3529	Normal	Zackular	USA	51	30.0	0
Healthy3-3021	Normal	Zackular	USA	54	32.0	1
Healthy30-3291	Normal	Zackular	USA	63	33.0	0
Healthy4-3023	Normal	Zackular	USA	44	26.0	0
Healthy5-3043	Normal	Zackular	USA	52	21.0	0
Healthy6-3061	Normal	Zackular	USA	75	25.0	1
Healthy7-3063	Normal	Zackular	USA	52	25.0	1
Healthy8-3073	Normal	Zackular	CA	65	27.0	1
Healthy9-3075	Normal	Zackular	USA	35	35.0	0
SRR2143516	Normal	Baxter	USA	64	36.0	1
SRR2143517	Normal	Baxter	USA	61	28.0	1
SRR2143518	Normal	Baxter	USA	47	22.0	0
SRR2143521	Normal	Baxter	USA	44	25.0	0
SRR2143522	Normal	Baxter	USA	51	26.0	0
SRR2143523	Cancer	Baxter	USA	78	26.0	1
SRR2143524	Normal	Baxter	USA	59	21.0	1
SRR2143525	Normal	Baxter	USA	63	23.0	0
SRR2143526	Cancer	Baxter	USA	67	21.0	1
SRR2143527	Normal	Baxter	USA	65	22.0	0
SRR2143531	Normal	Baxter	USA	77	22.0	1
SRR2143533	Cancer	Baxter	USA	88	23.0	0
SRR2143534	Normal	Baxter	USA	56	32.0	0
SRR2143536	Normal	Baxter	USA	63	23.0	1
SRR2143537	Normal	Baxter	USA	59	26.0	0
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SRR2143558	Normal	Baxter	USA	51	24.0	1
SRR2143559	Normal	Baxter	USA	59	27.0	0
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SRR2143561	Normal	Baxter	USA	77	32.0	0
SRR2143562	Normal	Baxter	USA	48	41.0	0
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SRR2143586	Normal	Baxter	USA	55	18.0	0
SRR2143587	Normal	Baxter	USA	51	21.0	0
SRR2143588	Normal	Baxter	USA	55	20.0	0
SRR2143589	Normal	Baxter	USA	61	24.0	1
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SRR2143591	Normal	Baxter	USA	36	34.0	0
SRR2143593	Normal	Baxter	USA	56	26.0	0
SRR2143596	Normal	Baxter	USA	45	29.0	1
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SRR2143631	Normal	Baxter	USA	62	40.0	1
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SRR2143644	Cancer	Baxter	USA	71	27.0	1
SRR2143647	Normal	Baxter	USA	42	23.0	0
SRR2143649	Normal	Baxter	USA	37	21.0	0
SRR2143650	Normal	Baxter	USA	41	20.0	1
SRR2143652	Cancer	Baxter	USA	80	28.0	0
SRR2143654	Normal	Baxter	USA	55	27.0	0
SRR2143657	Normal	Baxter	USA	62	21.0	0
SRR2143659	Cancer	Baxter	USA	45	24.0	1
SRR2143660	Normal	Baxter	USA	59	23.0	0
SRR2143662	Cancer	Baxter	USA	72	31.0	1
SRR2143663	Cancer	Baxter	USA	78	27.0	0
SRR2143664	Normal	Baxter	USA	70	31.0	1
SRR2143665	Cancer	Baxter	USA	70	23.0	1
SRR2143667	Cancer	Baxter	USA	62	30.0	0
SRR2143668	Normal	Baxter	USA	64	31.0	1
SRR2143669	Cancer	Baxter	USA	80	30.0	0
SRR2143672	Normal	Baxter	USA	60	32.0	1
SRR2143674	Cancer	Baxter	USA	85	28.0	1
SRR2143675	Cancer	Baxter	USA	78	25.0	1
SRR2143676	Cancer	Baxter	USA	84	32.0	0
SRR2143677	Cancer	Baxter	USA	80	27.0	1
SRR2143681	Cancer	Baxter	USA	68	27.0	1
SRR2143682	Cancer	Baxter	USA	47	29.0	0
SRR2143683	Normal	Baxter	USA	56	23.0	0
SRR2143684	Cancer	Baxter	USA	62	26.0	1
SRR2143693	Cancer	Baxter	USA	59	29.0	1
SRR2143694	Cancer	Baxter	USA	59	30.0	1
SRR2143696	Cancer	Baxter	USA	46	26.0	1
SRR2143697	Cancer	Baxter	USA	32	33.0	1
SRR2143698	Cancer	Baxter	USA	61	21.0	0
SRR2143699	Normal	Baxter	USA	46	28.0	0
SRR2143705	Cancer	Baxter	USA	85	26.0	1
SRR2143707	Cancer	Baxter	USA	57	27.0	1
SRR2143709	Cancer	Baxter	USA	60	56.0	1
SRR2143712	Cancer	Baxter	USA	69	28.0	1
SRR2143716	Cancer	Baxter	USA	37	35.0	1
SRR2143717	Cancer	Baxter	USA	79	26.0	0
SRR2143718	Cancer	Baxter	USA	53	30.0	1
SRR2143719	Cancer	Baxter	USA	75	30.0	0

SRR2143721	Cancer	Baxter	USA	69	26.0	1
SRR2143722	Cancer	Baxter	USA	74	32.0	0
SRR2143723	Cancer	Baxter	USA	52	34.0	1
SRR2143724	Cancer	Baxter	USA	64	24.0	0
SRR2143725	Cancer	Baxter	USA	56	33.0	1
SRR2143727	Cancer	Baxter	USA	51	35.0	0
SRR2143732	Cancer	Baxter	USA	46	20.0	0
SRR2143734	Cancer	Baxter	USA	64	16.0	0
SRR2143735	Cancer	Baxter	USA	67	32.0	0
SRR2143736	Cancer	Baxter	USA	55	57.0	1
SRR2143743	Normal	Baxter	USA	55	28.0	0
SRR2143744	Cancer	Baxter	USA	49		1
SRR2143745	Cancer	Baxter	USA	61	35.0	1
SRR2143746	Cancer	Baxter	USA	60	29.0	1
SRR2143747	Cancer	Baxter	USA	63	31.0	1
SRR2143748	Cancer	Baxter	USA	43	24.0	1
SRR2143749	Cancer	Baxter	USA	52	29.0	1
SRR2143750	Cancer	Baxter	USA	71	32.0	1
SRR2143758	Normal	Baxter	USA	51	28.0	1
SRR2143759	Cancer	Baxter	USA	58	30.0	1
SRR2143760	Normal	Baxter	USA	51	36.0	0
SRR2143761	Cancer	Baxter	USA	60	33.0	1
SRR2143762	Normal	Baxter	USA	62	31.0	1
SRR2143764	Normal	Baxter	USA	44	28.0	0
SRR2143766	Normal	Baxter	USA	51	19.0	0
SRR2143767	Normal	Baxter	USA	50	33.0	0
SRR2143768	Cancer	Baxter	USA	51	21.0	0
SRR2143769	Cancer	Baxter	USA	64	24.0	0
SRR2143770	Cancer	Baxter	USA	65	27.0	0
SRR2143776	Cancer	Baxter	USA	48	33.0	1
SRR2143777	Normal	Baxter	USA	52	28.0	0
SRR2143778	Normal	Baxter	USA	41	22.0	1
SRR2143779	Cancer	Baxter	USA	65	32.0	1
SRR2143780	Normal	Baxter	USA	44	25.0	0
SRR2143784	Cancer	Baxter	USA	78	31.0	1
SRR2143785	Cancer	Baxter	USA	59	30.0	0
SRR2143786	Cancer	Baxter	USA	63	29.0	1
SRR2143788	Cancer	Baxter	USA	73	22.0	0
SRR2143789	Normal	Baxter	USA	69	19.0	0
SRR2143792	Cancer	Baxter	USA	64	35.0	0
SRR2143796	Cancer	Baxter	USA	59	23.0	1
SRR2143798	Cancer	Baxter	USA	68	30.0	0
SRR2143805	Cancer	Baxter	USA	59	50.0	0

SRR2143807	Cancer	Baxter	USA	36	21.0	0
SRR2143811	Normal	Baxter	USA	31	24.0	1
SRR2143813	Cancer	Baxter	USA	58	22.0	1
SRR2143814	Cancer	Baxter	USA	65	43.0	0
SRR2143818	Normal	Baxter	USA	53	26.0	0
SRR2143824	Cancer	Baxter	USA	57	34.0	1
SRR2143827	Cancer	Baxter	USA	69	22.0	0
SRR2143830	Cancer	Baxter	USA	69	28.0	1
SRR2143832	Cancer	Baxter	USA	74	35.0	1
SRR2143835	Normal	Baxter	USA	74	38.0	0
SRR2143836	Cancer	Baxter	USA	71	32.0	1
SRR2143837	Normal	Baxter	USA	52	35.0	0
SRR2143838	Normal	Baxter	USA	55	21.0	0
SRR2143839	Normal	Baxter	USA	56	29.0	1
SRR2143840	Cancer	Baxter	USA	81	23.0	0
SRR2143841	Normal	Baxter	USA	69	26.0	0
SRR2143843	Normal	Baxter	USA	58	27.0	0
SRR2143854	Cancer	Baxter	USA	40	25.0	0
SRR2143855	Cancer	Baxter	USA	75	26.0	1
SRR2143856	Cancer	Baxter	USA	50	28.0	1
SRR2143863	Normal	Baxter	USA	61	21.0	0
SRR2143864	Normal	Baxter	USA	50	27.0	0
SRR2143881	Normal	Baxter	USA	47	24.0	0
SRR2143883	Cancer	Baxter	USA	50	29.0	1
SRR2143884	Cancer	Baxter	USA	40	30.0	1
SRR2143885	Normal	Baxter	USA	40	34.0	1
SRR2143886	Cancer	Baxter	USA	51	26.0	1
SRR2143888	Normal	Baxter	USA	46	29.0	0
SRR2143891	Normal	Baxter	USA	36	22.0	0
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SRR2143904	Cancer	Baxter	USA	52	25.0	1
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SRR2143907	Normal	Baxter	USA	72	20.0	0
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SRR2143924	Cancer	Baxter	USA	57	33.0	1
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SRR2144015	Normal	Baxter	USA	54	34.0	0
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SRR2144092	Cancer	Baxter	USA	32	31.0	1
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SRR2144096	Normal	Baxter	USA	63	38.0	1
SRR2144099	Cancer	Baxter	USA	51	33.0	0
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SRR2144104	Normal	Baxter	USA	56	25.0	0
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SRR2144108	Cancer	Baxter	USA	62	27.0	1
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SRR2144124	Normal	Baxter	USA	77	32.0	1
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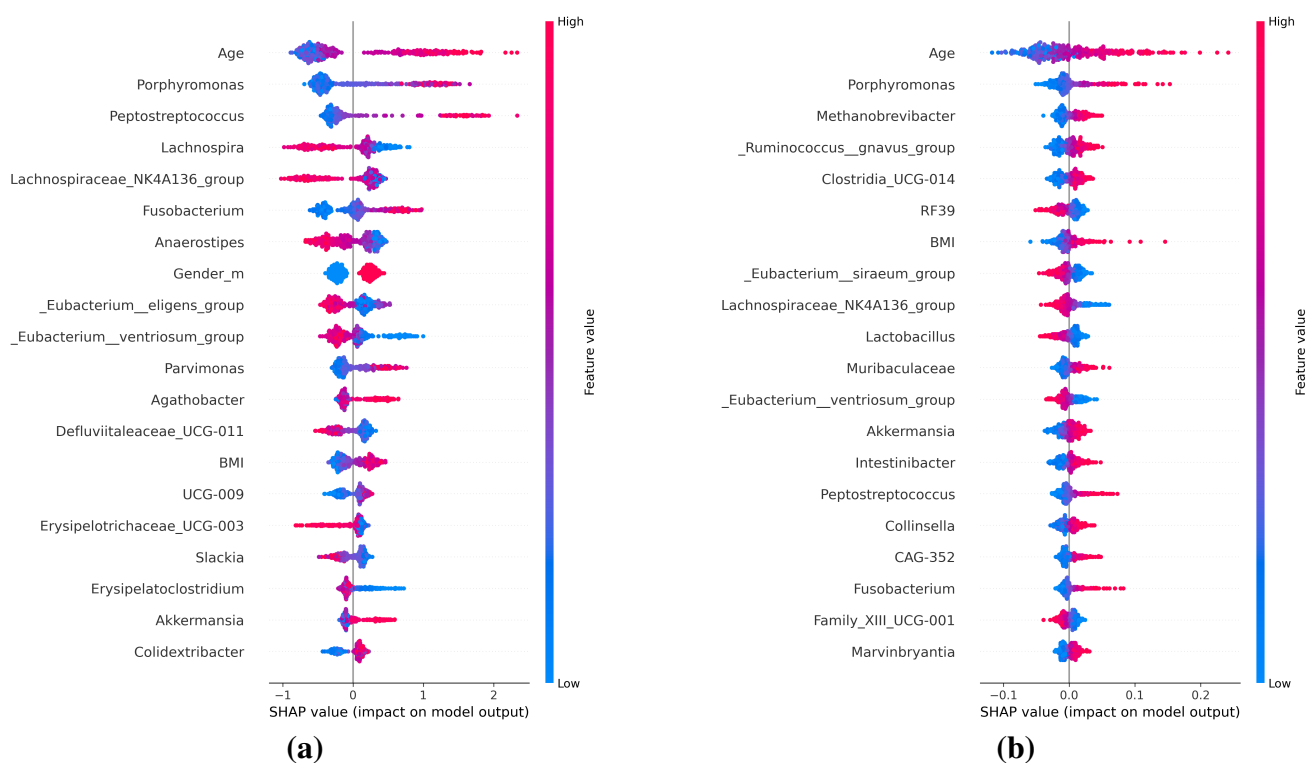


Figure S5: SHAP summary plot for: (a) XGBoost and (b) SVM. *The SHAP values for SVM were computed by repeating the cross-validation 5 times instead of 20 for computational reasons.