

Table S9. linear regression with antimicrobial chemicals or high-use chemicals as predictor and AMR determinants as response, ranked by p-value

Predictor	Response	Adjusted_R2	P_Value	Intercept	Slope
<i>Antimicrobial chemicals</i>					
Oseltamivir	IncP_oriT	0.991526479	1.36E-26	-1183969.9	5.84E+08
Clindamycin	IncP_oriT	0.975883704	3.86E-21	-2045516.7	14477309
Tetracycline	IncP_oriT	0.974966074	6.05E-21	6338377.62	13534650
Ciprofloxacin	IncP_oriT	0.974494108	7.57E-21	639660.161	11264643
Chlarithromycin	tot_MLSB	0.968513365	9.51E-20	5755005.92	38134107
Chlarithromycin	ermX_2	0.966944122	1.71E-19	106859.5	37271393
Chlarithromycin	IncP_oriT	0.965257417	3.10E-19	-51192124	39743169
Oseltamivir	ISPps	0.960667639	1.38E-18	29406614.4	3.02E+08
Oseltamivir	tot_MGE	0.954606611	7.72E-18	106608334	9.87E+08
Chlarithromycin	tot_MGE	0.952227365	1.43E-17	17447842	67919644
Ciprofloxacin	ttgB	0.947964056	3.99E-17	4537789.56	1551326
Oseltamivir	tot_MLSB	0.947187239	4.76E-17	57899246.9	5.47E+08
Oseltamivir	ermX_2	0.94509158	7.60E-17	51119805.9	5.35E+08
Chlarithromycin	ISPps	0.943569418	1.06E-16	3011891.96	20648616
Oseltamivir	ttgB	0.940336638	2.06E-16	4597316.03	79475704
Chlarithromycin	tot_mobility	0.939575419	2.40E-16	278464814	1.6E+08
Ciprofloxacin	ISPps	0.939159978	2.61E-16	30591655.1	5812849
Chlarithromycin	ttgA	0.938021379	3.26E-16	2202008.8	2932458
Tetracycline	ttgB	0.937291377	3.76E-16	5461435.05	1853435
Chlarithromycin	ttgB	0.936762823	4.16E-16	-2563670.6	5467127
Ciprofloxacin	tot_MGE	0.929148476	1.63E-15	111128835	18939379
Tetracycline	ISPps	0.928471104	1.83E-15	34057827.9	6944458
Chlarithromycin	intI3	0.927979649	1.99E-15	98789148.7	92606605
Clindamycin	ISPps	0.927078786	2.31E-15	29868397.1	7419445
Ciprofloxacin	ermX_2	0.926993134	2.34E-15	52949265.2	10305559
Tetracycline	tot_MGE	0.926422052	2.57E-15	121202327	22718717
Ciprofloxacin	tot_MLSB	0.924418174	3.55E-15	60184287.5	10521894
Clindamycin	tot_MGE	0.924265055	3.64E-15	107621291	24262991
Clindamycin	ermX_2	0.923795206	3.92E-15	50892438.3	13213782
Clindamycin	ttgB	0.923040945	4.42E-15	4512092.71	1967153
Clindamycin	tot_MLSB	0.920633155	6.40E-15	58138245.2	13486994
Oseltamivir	ttgA	0.917474005	1.02E-14	6210880.86	42102954
Tetracycline	ermX_2	0.915534934	1.35E-14	59170999.4	12305985
Tetracycline	tot_MLSB	0.91359537	1.78E-14	66484042.3	12568293
Clindamycin	ttgA	0.886856555	4.58E-13	6264232.59	1034499
Ciprofloxacin	ttgA	0.880373262	8.97E-13	6493237.78	802666.1
Clindamycin	tot_mobility	0.880213894	9.12E-13	502788836	56069889
Fluconazole	IS630	0.879783792	9.52E-13	-5181258.4	704837.4
Chlarithromycin	tot_arg_mob	0.878709523	1.06E-12	668727410	2.27E+08
Oseltamivir	tot_mobility	0.870981498	2.23E-12	515205096	2.23E+09
N4.acetylsulfamethoxazole	trfA	0.87037837	2.36E-12	-382403.75	29705469
Tetracycline	ttgA	0.869813083	2.49E-12	6975420.07	958654.9
Oseltamivir	intI3	0.869738786	2.51E-12	233942313	1.3E+09
Chlarithromycin	sul3_1	0.858743049	6.66E-12	7054681.78	2833837
Ciprofloxacin	tot_mobility	0.856155618	8.30E-12	522092877	43083790
Chlarithromycin	tot_integrans	0.851297937	1.24E-11	261016972	91717772
Clindamycin	intI3	0.848802327	1.51E-11	233684159	32158105
Ciprofloxacin	intI3	0.8467793	1.78E-11	239834695	25010530

Tetracycline	tot_mobility	0.839842737	3.04E-11	550287854	51281526
Tetracycline	intI3	0.833247214	4.95E-11	255614061	29813901
Chlarithromycin	qnrB4	0.819419617	1.30E-10	10216412.5	2855692
Azithromycin	dfrB	0.818055022	1.42E-10	434319.217	858053.7
Fluconazole	qepA	0.817298515	1.49E-10	-28660945	3829168
Fluconazole	tot_trimethoprim	0.814677337	1.77E-10	-1074660.8	113113.4
Clindamycin	tot_arg_mob	0.80340941	3.62E-10	1000010523	78947931
Oseltamivir	sul3_1	0.802956746	3.72E-10	11203286.3	39826281
Fluconazole	tot_quinolone	0.794742884	6.11E-10	-29533814	4568219
Oseltamivir	tot_arg_mob	0.783250778	1.18E-09	1024531039	3.12E+09
Fluconazole	dfrA25	0.777958212	1.58E-09	-294363.75	46266.41
Clindamycin	tot_integrans	0.776192193	1.74E-09	395167545	31806898
Ciprofloxacin	tot_arg_mob	0.771911291	2.19E-09	1032908883	60314089
Ciprofloxacin	sul3_1	0.765859706	3.01E-09	11504318.6	757190.5
Erythromycin	mcr1	0.765594553	3.05E-09	1087904.77	293465.3
Clindamycin	sul3_1	0.764726384	3.19E-09	11341248	971793.2
Tetracycline	sul3_1	0.762386513	3.60E-09	11916038.4	907607.3
Trimethoprim	trfA	0.761378507	3.79E-09	654799.481	8378367
Fluconazole	mcr1	0.759067664	4.26E-09	-678237.18	71322.27
Tetracycline	tot_arg_mob	0.753275387	5.69E-09	1074670468	71616927
N4.acetylsulfamethoxazole	aadA2_3	0.751742845	6.13E-09	4068238.63	1.11E+08
Fluconazole	tot_efflux	0.746858024	7.77E-09	-28019281	6291223
Fluconazole	emrD_1	0.745606775	8.24E-09	1640613.77	609843.3
Oseltamivir	tot_integrans	0.742623306	9.50E-09	408596762	1.25E+09
Fluconazole	qnrB_2	0.736602436	1.26E-08	-97595.369	17713.41
Ciprofloxacin	tot_integrans	0.735682745	1.31E-08	410964042	24144411
Fluconazole	tot_MDR	0.730366893	1.67E-08	1549714.31	1402844
Fluconazole	tetL_2	0.725029852	2.12E-08	-1133148.7	174902.6
N4.acetylsulfamethoxazole	tot_amino	0.72248426	2.37E-08	14948708.7	2.06E+08
N4.acetylsulfamethoxazole	aadA_1	0.721320712	2.50E-08	4763427.41	78407779
Chlarithromycin	tot_protection	0.718827305	2.78E-08	191144008	45351514
Oseltamivir	qnrB4	0.718465499	2.83E-08	14779987.5	38932833
N4.acetylsulfamethoxazole	tnpA_4	0.71619116	3.12E-08	2185040.49	79625269
Tetracycline	tot_integrans	0.712256987	3.69E-08	429085527	28562809
Tetracycline	qnrB4	0.711854933	3.75E-08	15237007.5	905392
Clindamycin	qnrB4	0.711237039	3.85E-08	14686953.2	967616.9
Fluconazole	cmxA	0.710439056	3.98E-08	-284105.6	54104.72
Ciprofloxacin	qnrB4	0.70887945	4.25E-08	14877329.4	752226.7
Fluconazole	tot_phenicol	0.706562592	4.68E-08	-317354.69	68837.63
Fluconazole	tot_beta	0.70364447	5.28E-08	-779324.61	265385
N4.acetylsulfamethoxazole	tetW	0.696983048	6.92E-08	891329.174	82360739
N4.acetylsulfamethoxazole	tot_tetracycline	0.693248332	8.04E-08	15365715.8	2.34E+08
Sulfamethoxazole	tnpA_4	0.68745965	1.01E-07	6702252.28	51672640
Fluconazole	tot_replacement	0.685679982	1.08E-07	-8785138.3	940669.1
Erythromycin	dfrB	0.682784854	1.21E-07	808496.517	294578.1
N4.acetylsulfamethoxazole	tetQ	0.682108164	1.24E-07	9107881.33	1.39E+08
Chlarithromycin	tot_arg	0.680639124	1.31E-07	390262596	67730810
Fluconazole	blaNDM	0.678428229	1.43E-07	41086.375	21276.84
Chlarithromycin	tot_efflux	0.678015634	1.45E-07	97341998.4	19946355
Fluconazole	tetJ	0.676555108	1.53E-07	-45170.103	8170.257
Fluconazole	ant6-ia	0.675543574	1.59E-07	-155774.09	117339.5
Sulfamethoxazole	tetW	0.673953264	1.69E-07	5528519.89	53634520
Clindamycin	tot_protection	0.668793645	2.05E-07	255453609	15883989

Fluconazole	blaCTX-M	0.668268009	2.09E-07	-854492.6	171969.8
Fluconazole	bacA	0.666844041	2.20E-07	-7710477.5	827555.7
Azithromycin	bacA	0.651155791	3.86E-07	9984803.3	8966924
Azithromycin	tot_replacement	0.650748334	3.92E-07	11546858.5	10056755
Sulfamethoxazole	aadA2_3	0.638352898	6.00E-07	11134199.4	68048237
Chlarithromycin	tot_MDR	0.620947467	1.07E-06	30304053.1	4313079
Azithromycin	tot_trimethoprim	0.620430298	1.08E-06	1562055.17	1089831
Fluconazole	tolC_2	0.617210631	1.20E-06	54216.2185	34422.14
Oseltamivir	tot_protection	0.617130809	1.21E-06	265468701	6.12E+08
Sulfamethoxazole	tet44	0.613630911	1.35E-06	736623.959	4891365
Ciprofloxacin	tot_protection	0.613116084	1.37E-06	266361427	11873113
Trimethoprim	tetQ	0.607691569	1.63E-06	13778894.7	39631968
Fluconazole	catA3	0.605745755	1.73E-06	-33249.089	14732.91
Chlarithromycin	orf37-IS26	0.603666754	1.84E-06	32344018.6	5776934
Chlarithromycin	tot_other	0.598465571	2.16E-06	40681057.2	6763940
Chlarithromycin	dfrA25	0.597165393	2.25E-06	693761.743	135555.5
Azithromycin	mcr1	0.594241499	2.46E-06	969434.931	696444.7
Sulfamethoxazole	aadA6	0.594070897	2.47E-06	969677.059	3455503
Tetracycline	tot_protection	0.591646426	2.66E-06	275526782	14026651
Sulfamethoxazole	tot_amino	0.58851168	2.92E-06	28534825	1.24E+08
Clindamycin	tot_arg	0.585950379	3.15E-06	497221687	22878042
Fluconazole	dfrB	0.584816815	3.26E-06	-780297.06	66846.99
Fluconazole	blaSHV11	0.583084823	3.43E-06	34081.6066	72138.36
Sulfamethoxazole	aadA_1	0.578448728	3.93E-06	9987651.26	46766940
Trimethoprim	aadA2_3	0.575828259	4.24E-06	8905739.66	29459935
Trimethoprim	aadA_1	0.573086208	4.59E-06	7991800.17	21154945
Erythromycin	tetL_2	0.570778846	4.91E-06	3467292.95	640600
Trimethoprim	tot_amino	0.567214141	5.44E-06	23607270.9	55394332
Trimethoprim	tot_tetracycline	0.566981531	5.47E-06	24550505.9	63988202
Erythromycin	tot_trimethoprim	0.56646668	5.55E-06	1981179.87	390623.2
N4.acetylsulfamethoxazole	aadA6	0.565300179	5.74E-06	707261.951	5103318
Fluconazole	qnrB4	0.563441022	6.05E-06	-775273.76	721337.6
Sulfamethoxazole	trfA	0.555737939	7.50E-06	1938513.33	15906139
Oseltamivir	tot_arg	0.54995007	8.80E-06	509325943	8.89E+08
Chlarithromycin	ant6-ia	0.548635271	9.12E-06	2293833.05	353283.9
Ciprofloxacin	tot_arg	0.545538689	9.93E-06	510816006	17230300
Chlarithromycin	tot_quinolone	0.543017338	1.06E-05	72246966	12675461
Oseltamivir	orf37-IS26	0.543004342	1.06E-05	41247384	79789287
Oseltamivir	tot_efflux	0.542873097	1.07E-05	132755520	2.61E+08
Clindamycin	tot_efflux	0.540332016	1.14E-05	131914028	6499798
Ciprofloxacin	tot_efflux	0.539694679	1.16E-05	133108356	5058110
Tetracycline	tot_arg	0.525162667	1.71E-05	524382614	20335401
Clindamycin	tot_other	0.524378946	1.74E-05	51102620	2304817
Tetracycline	tot_efflux	0.523267292	1.79E-05	136828167	5989531
Fluconazole	tot_arg	0.52133209	1.89E-05	94283071.2	18018297
Fluconazole	mdtH	0.512028125	2.39E-05	-1081435.3	276260.6
Sulfamethoxazole	tot_tetracycline	0.5109477	2.46E-05	31955088.6	1.34E+08
Trimethoprim	tnpA_4	0.508882241	2.59E-05	6017744.47	20399341
N4.acetylsulfamethoxazole	strB	0.503931875	2.93E-05	1019973.04	4403273
Azithromycin	emrD_1	0.500281101	3.21E-05	16388592.2	5544248
N4.acetylsulfamethoxazole	tet44	0.498511591	3.36E-05	456779.924	6712389
Tetracycline	orf37-IS26	0.498088755	3.39E-05	43041377.6	1790625
Ciprofloxacin	orf37-IS26	0.496831912	3.50E-05	42310217.7	1488914

Fluconazole	orf37-IS26	0.496226702	3.55E-05	5066762.72	1589233
Azithromycin	tetL_2	0.490763182	4.06E-05	3085344.96	1597071
Fluconazole	tot_integrans	0.488861053	4.25E-05	-19667343	21302212
Clindamycin	orf37-IS26	0.488219637	4.32E-05	42170731.5	1896891
Trimethoprim	tetW	0.485997702	4.56E-05	4945842.75	20923821
Ciprofloxacin	tot_other	0.483126459	4.88E-05	52601452.2	1727950
Erythromycin	tot_replacement	0.480831311	5.16E-05	16563923.4	3267211
N4.acetylsulfamethoxazole	aph3-iii	0.478853199	5.41E-05	705732.544	3476356
Oseltamivir	dfrA25	0.478514388	5.45E-05	933719.174	1774944
Clindamycin	tot_MDR	0.476187518	5.77E-05	38087454.3	1381677
Tetracycline	dfrA25	0.474439887	6.01E-05	954317.132	41294.71
Oseltamivir	tot_MDR	0.472950652	6.22E-05	38360063.3	55154731
Ciprofloxacin	dfrA25	0.472657832	6.27E-05	937772.422	34317.42
N4.acetylsulfamethoxazole	tot_deactivation	0.46971642	6.72E-05	49965080.7	2.15E+08
Fluconazole	intI3	0.468846078	6.86E-05	-135708899	20247568
Erythromycin	bacA	0.468098052	6.98E-05	14582743.6	2876588
Chlarithromycin	qepA	0.467331325	7.10E-05	61664106.5	9782288
Erythromycin	blaCTX-M	0.4649372	7.51E-05	3786499.85	595313.8
Fluconazole	sul3_1	0.46068302	8.29E-05	-827711.53	637811.1
Clindamycin	dfrA25	0.46044065	8.34E-05	936791.28	43547.97
Oseltamivir	tot_other	0.46000088	8.42E-05	53189924	86887323
Ciprofloxacin	tot_MDR	0.459558852	8.51E-05	38616921.3	1058390
Fluconazole	tot_arg_mob	0.45932502	8.55E-05	60596116.2	50547146
Tetracycline	tot_other	0.457006429	9.02E-05	54173163.9	2023363
Fluconazole	vanYD_1	0.449038504	0.0001082	-140103.4	105558.9
Fluconazole	tot_vanco	0.449038504	0.0001082	-140103.4	105558.9
Oseltamivir	ant6-ia	0.445836672	0.0001163	2908748.25	4658639
Azithromycin	vanYD_1	0.445197765	0.000118	2103625.1	1152119
Azithromycin	tot_vanco	0.445197765	0.000118	2103625.1	1152119
Tetracycline	tot_MDR	0.443005728	0.000124	39435955.4	1250207
Azithromycin	cmxA	0.442422578	0.0001256	1050418.92	475627.5
Azithromycin	blaCTX-M	0.438035041	0.0001385	3327533.74	1548949
Azithromycin	mdtH	0.430072266	0.0001652	5145743.3	2794107
Fluconazole	tot_other	0.424544651	0.0001864	13451220	1739365
Tetracycline	ant6-ia	0.423037729	0.0001927	2991188.74	106237
Trimethoprim	strB	0.419692963	0.0002071	1186423.42	1217082
Sulfamethoxazole	tetQ	0.419460183	0.0002082	20177245.4	73511410
Ciprofloxacin	ant6-ia	0.417560088	0.0002169	2954685.05	87916.91
Clindamycin	ant6-ia	0.417468757	0.0002173	2934871.29	112902.3
Chlarithromycin	IS630	0.413020364	0.0002391	12381518.5	1643141
Clindamycin	tot_quinolone	0.411714887	0.0002458	95326537.2	4044649
Oseltamivir	tot_quinolone	0.410686974	0.0002513	96021440.3	1.62E+08
Ciprofloxacin	tot_quinolone	0.408671317	0.0002623	96214923.3	3138662
Fluconazole	mefA	0.407090988	0.0002712	196005.258	59015.34
Fluconazole	tot_mobility	0.407053514	0.0002715	-33686955	32528849
Chlarithromycin	blaSHV11	0.404824969	0.0002846	1628103.22	202388.1

Predictor	Response	Adjusted_R2	P_Value	Intercept	Slope
High-use chemicals					
Codeine	ISPPs	0.959680183	1.86E-18	3409911.79	2028077.089
Codeine	tot_MGE	0.956195127	5.03E-18	21212626	6630281.322
Gabapentin	orf37-IS26	0.950471959	2.20E-17	-1058324	1880.890121
Acesulfame	orf37-IS26	0.90994161	2.93E-14	-8444060.9	5532.523693
Atenolol	orf37-IS26	0.900290714	9.99E-14	9481822.85	164325.6183
Venlafaxine	tot_protection	0.892480537	2.48E-13	-3666325.1	8456737.486
Codeine	IncP_oriT	0.885859318	5.09E-13	-39120857	3716195.673
Gabapentin	ant6-ia	0.883170337	6.74E-13	211821.473	116.1157858
Atenolol	sul3_1	0.878969651	1.03E-12	416159.989	67465.70955
Codeine	sul3_1	0.876239533	1.35E-12	7083876.9	278756.666
Acetaminophen	trfA	0.8700357	2.44E-12	332614.305	227.2258399
Gabapentin	sul3_1	0.861366784	5.31E-12	-2938181.1	745.2098003
Venlafaxine	tot_arg	0.855927724	8.46E-12	95283863.8	12703315.27
O.desmethylvenlafaxine	emrD_1	0.855196009	8.99E-12	2540271.78	25053.485
Salicylic.Ac	trfA	0.85053325	1.32E-11	453514.142	672.0468027
Codeine	tot_MLSB	0.849801228	1.40E-11	21902290.5	3490104.638
Codeine	ttgA	0.840145226	2.97E-11	3282895.58	271048.688
Codeine	ermX_2	0.831936344	5.44E-11	17803602.5	3379420.835
Codeine	tot_mobility	0.823873845	9.58E-11	346259393	14607022.74
Citalopram	orf37-IS26	0.81634557	1.59E-10	-613659.01	2742298.162
Venlafaxine	tot_arg_mob	0.816155617	1.61E-10	-7706632.5	36931507.64
Codeine	ttgB	0.813566229	1.91E-10	-104693.59	497975.5531
Atenolol	tot_MGE	0.812708089	2.01E-10	-94882663	1482633.788
Atenolol	ISPPs	0.804671563	3.35E-10	-31083266	450585.3851
Citalopram	tot_arg	0.802107334	3.92E-10	53305228	30137096.33
Paraxanthine	orf37-IS26	0.799381177	4.63E-10	23141269.3	2629.614545
Theophylline	orf37-IS26	0.796830018	5.40E-10	23159463.2	61158.19169
Acesulfame	ant6-ia	0.795167998	5.95E-10	-110901.6	331.7381574
Ibuprofen	orf37-IS26	0.794177181	6.31E-10	23528351.8	15933.44241
Gabapentin	blaSHV11	0.793952962	6.40E-10	212617.098	72.70337858
Caffeine	orf37-IS26	0.792669137	6.90E-10	22944649.5	2106.254763
Codeine	intl3	0.79156219	7.36E-10	144762239	8363515.015
Nicotine	orf37-IS26	0.790021467	8.04E-10	21060503.4	40073.22956
Citalopram	sul3_1	0.785030885	1.07E-09	-3531971.9	1117868.323
Hydrochlorothiazide	tot_arg_mob	0.783255301	1.18E-09	-598738841	4795214.181
Venlafaxine	tot_other	0.782694716	1.22E-09	9969242.23	1291442.385
Gabapentin	qnrB4	0.782403242	1.24E-09	772813.269	733.5706016
Acesulfame	sul3_1	0.777453481	1.63E-09	-5044979.5	2131.657239
Acesulfame	blaSHV11	0.776291749	1.73E-09	-102569.96	216.039329
Saccharin	orf37-IS26	0.77440413	1.92E-09	22706730	12360.98964
Hydrochlorothiazide	tot_MDR	0.773743507	1.99E-09	-2273889.5	106585.8708
Citalopram	tot_arg_mob	0.771195888	2.28E-09	-138366653	87966691.66
Trans.3..OHcotinine	orf37-IS26	0.770092333	2.41E-09	23201122.4	47975.21808
Old.Sucralose	emrD_1	0.769559952	2.48E-09	322837.819	2565.502606
Hydrochlorothiazide	tot_arg	0.768702806	2.60E-09	-80019646	1598165.488
Ibuprofen	ISPPs	0.76856988	2.62E-09	2852453.73	45380.41129
Codeine	tot_arg_mob	0.768460935	2.63E-09	766619603	20782376.13
Ibuprofen	sul3_1	0.766896642	2.85E-09	6274057.17	6508.088457
Cotinine	tetQ	0.766759049	2.87E-09	-174659.24	34235.86911
Cotinine	orf37-IS26	0.766520066	2.91E-09	23201755.9	43525.33405
Ibuprofen	tot_MGE	0.765637988	3.05E-09	19418032.1	148349.4051

Atenolol	qnrB4	0.765340202	3.09E-09	4535248.04	65089.49588
Gabapentin	dfrA25	0.76472812	3.19E-09	59237.2487	39.99168306
Hydrochlorothiazide	sul3_1	0.764264038	3.27E-09	-8720396.8	59725.26018
Venlafaxine	tot_integrans	0.757094253	4.70E-09	4795638.62	14594730.08
Venlafaxine	tot_mobility	0.756780598	4.78E-09	-102990496	24228192.37
Citalopram	tot_MDR	0.75635053	4.88E-09	8122783.74	1948614.027
Paraxanthine	sul3_1	0.756200423	4.92E-09	6288783.96	1063.644284
Naproxen	orf37-IS26	0.754094623	5.46E-09	23715143.3	87013.29133
Atenolol	ant6-ia	0.753997604	5.49E-09	1032325.59	9656.86137
Hydrochlorothiazide	tot_mobility	0.751375559	6.24E-09	-518719195	3197048.693
Hydrochlorothiazide	tot_integrans	0.750969831	6.37E-09	-245157917	1924987.424
Atenolol	tot_arg_mob	0.749159722	6.95E-09	293072166	4962174.049
Hydrochlorothiazide	qnrB4	0.748409409	7.21E-09	-6090347.3	60936.41588
O.desmethylvenlafaxine	tot_MDR	0.747396222	7.57E-09	6382966.97	54587.96896
Theophylline	sul3_1	0.746735572	7.81E-09	6374301.39	24627.8941
Paraxanthine	tot_MGE	0.74565174	8.23E-09	22106545.3	24103.32662
Paraxanthine	ISPps	0.745186994	8.41E-09	3932037.29	7357.735991
Codeine	orf37-IS26	0.744101107	8.86E-09	29217849.5	621046.0792
Codeine	qnrB4	0.744061163	8.87E-09	11159738.8	265763.558
Atenolol	tot_mobility	0.742516761	9.55E-09	57885101.7	3360003.781
Hydrochlorothiazide	tot_efflux	0.741849968	9.85E-09	-37318098	463630.2081
Naproxen	tetQ	0.73902185	1.12E-08	555843.037	67781.02474
Citalopram	tot_protection	0.734199342	1.40E-08	-2048228.9	18858184.39
Theophylline	tot_MGE	0.733333191	1.46E-08	24805847.5	557025.1612
Theophylline	ISPps	0.73299662	1.48E-08	4746573.55	170049.72
Nicotine	sul3_1	0.728855294	1.79E-08	5664448.4	16018.28419
Citalopram	ant6-ia	0.723602667	2.26E-08	329991.014	165598.5414
Gabapentin	tot_MGE	0.721940555	2.43E-08	-141789804	15632.63907
Caffeine	sul3_1	0.721806601	2.45E-08	6525416.74	836.7327533
Hydrochlorothiazide	orf37-IS26	0.721632423	2.46E-08	-9761231.2	139961.0459
Citalopram	tot_mobility	0.718102854	2.87E-08	-191671881	57829595.33
Metformin	tetQ	0.715201403	3.25E-08	1047117.74	4294.038173
Metformin	orf37-IS26	0.714517017	3.35E-08	24767816.2	5457.508456
Nicotine	ISPps	0.714208327	3.39E-08	-53293.704	110513.3016
Nicotine	tot_MGE	0.713396344	3.51E-08	9394097.99	361731.001
Hydrochlorothiazide	intl3	0.713214346	3.54E-08	-344877417	1820241.577
Nicotine	tetQ	0.711905761	3.74E-08	-126442.19	29999.33545
Hydrochlorothiazide	dfrA25	0.711232661	3.85E-08	-291016.13	3278.286017
Trans.3..OHcotinine	tetQ	0.710343507	4.00E-08	1112937.07	36315.35568
Acetaminophen	tetQ	0.7101336	4.03E-08	12040515.1	1085.416612
Acetaminophen	aadA2_3	0.709722563	4.10E-08	7201525.29	827.1596397
Hydrochlorothiazide	ant6-ia	0.705797973	4.83E-08	-443205.44	8855.978501
Caffeine	tetQ	0.703702212	5.27E-08	1514561.94	1565.673246
Saccharin	tetQ	0.703620975	5.28E-08	975575.056	9290.227021
Citalopram	qnrB4	0.703220335	5.37E-08	359300.79	1093442.056
Atenolol	blaSHV11	0.701707109	5.72E-08	690833.274	6148.45922
Caffeine	tot_MGE	0.6973255	6.83E-08	31248093.8	18779.34403
Caffeine	ISPps	0.69729637	6.83E-08	6689753.77	5734.126778
Acetaminophen	aadA_1	0.697078611	6.89E-08	6843143.67	590.2700283
Acetaminophen	tot_amino	0.695621289	7.31E-08	20479877.9	1551.527631
Atenolol	tot_MLSB	0.694322353	7.70E-08	-34306655	766362.4066
Salicylic.Ac	tetQ	0.693883428	7.84E-08	12620480.9	3209.878603
Venlafaxine	ISPps	0.693090957	8.09E-08	-38985096	3000158.026

Salicylic.Ac	aadA2_3	0.690887671	8.82E-08	7672316.27	2441.822147
Saccharin	sul3_1	0.689224558	9.42E-08	6617581.92	4858.084786
Acetaminophen	tot_tetracycline	0.687749847	9.98E-08	21125449	1782.979271
Atenolol	tot_arg	0.687450342	1.01E-07	235187064	1602170.268
Atenolol	intI3	0.687412085	1.01E-07	-8791719.7	1890631.29
Citalopram	blaNDM	0.68738498	1.01E-07	148263.898	29249.58888
Gabapentin	tolC_2	0.687178682	1.02E-07	252608.689	31.54938735
Acesulfame	mefA	0.686689565	1.04E-07	-188019.28	196.7820493
Gabapentin	ISPps	0.686066744	1.07E-07	-42061586	4659.924464
O.desmethylvenlafaxine	blaNDM	0.685020049	1.11E-07	119153.094	822.6889357
Citalopram	tot_integrans	0.684264723	1.14E-07	-29202222	34044485.57
Acesulfame	tolC_2	0.684091519	1.15E-07	104889.669	94.55535698
Hydrochlorothiazide	tot_protection	0.683739323	1.17E-07	-78189365	986708.7041
Atenolol	ttgA	0.683084711	1.20E-07	-1035873.5	59383.6365
Venlafaxine	sul3_1	0.682425617	1.23E-07	421945.721	427565.7989
Acesulfame	qnrB4	0.682174972	1.24E-07	-846547.04	2064.897991
Salicylic.Ac	aadA_1	0.680952933	1.30E-07	7159810.71	1745.402104
Gabapentin	intI3	0.679818931	1.35E-07	-106123508	20975.92162
Citalopram	ISPps	0.678211004	1.44E-07	-52551083	7266290.497
Salicylic.Ac	tot_amino	0.678137477	1.44E-07	21341753.2	4583.374768
Citalopram	tot_MGE	0.67750799	1.48E-07	-162469659	23785109.76
Trans.3..OHcotinine	sul3_1	0.675259032	1.61E-07	6931093.56	18723.62213
Theophylline	tetQ	0.674463325	1.66E-07	2394201.45	44450.32439
Citalopram	blaSHV11	0.67409264	1.68E-07	242244.911	105493.1994
Salicylic.Ac	tot_tetracycline	0.671350334	1.86E-07	22093751.8	5270.425692
Venlafaxine	ttgA	0.670356788	1.93E-07	-3462518.1	420616.5654
Codeine	tot_integrans	0.669932579	1.96E-07	325046767	7976741.418
Atenolol	ermX_2	0.66690457	2.20E-07	-34343452	735512.2432
Hydrochlorothiazide	tot_MLSB	0.666003989	2.27E-07	-155893986	711024.0281
Cotinine	tot_tetracycline	0.664928499	2.36E-07	3918606.13	53377.70542
Venlafaxine	tot_MGE	0.664669603	2.38E-07	-107786135	9633462.286
Paraxanthine	tetQ	0.664451538	2.40E-07	2650769.08	1894.940113
Gabapentin	tot_arg_mob	0.66327361	2.51E-07	138575096	52251.06864
Hydrochlorothiazide	tot_quinolone	0.662586294	2.57E-07	-21670500	309900.3046
Saccharin	ISPps	0.662247369	2.60E-07	7615920.66	33209.6738
Venlafaxine	tot_MDR	0.662121969	2.61E-07	14874236.8	747875.8325
Gabapentin	tot_mobility	0.661888252	2.64E-07	-50857267	35495.02906
Saccharin	tot_MGE	0.66113915	2.71E-07	34593751	108674.3468
Gabapentin	tot_MDR	0.660977826	2.72E-07	13940055.6	1166.263912
Hydrochlorothiazide	tot_MGE	0.660849565	2.74E-07	-273561278	1272061.268
O.desmethylvenlafaxine	IS630	0.658972305	2.93E-07	671012.532	23656.46372
Citalopram	ttgA	0.658157494	3.01E-07	-5404205.2	1020340.238
Acesulfame	dfrA25	0.657845125	3.05E-07	-19512.312	111.8691341
Hydrochlorothiazide	ermX_2	0.656921853	3.15E-07	-155734427	691001.56
Gabapentin	mefA	0.656659571	3.18E-07	173586.958	64.15430557
O.desmethylvenlafaxine	qepA	0.656244643	3.23E-07	-802182.93	132851.5275
O.desmethylvenlafaxine	tot_efflux	0.655221851	3.34E-07	9239665.13	227645.3695
Atenolol	IncP_oriT	0.654911856	3.38E-07	-85832926	778275.7551
Acetaminophen	tnpA_4	0.652179487	3.72E-07	4632254.22	582.8966172
Cotinine	sul3_1	0.650061923	4.01E-07	7195517.79	16722.58876
Gabapentin	tot_MLSB	0.645805772	4.65E-07	-65045834	8260.641388
O.desmethylvenlafaxine	tot_trimethoprim	0.644239146	4.91E-07	-226332.91	3896.474874
Hydrochlorothiazide	tot_other	0.643663416	5.01E-07	-4266471.7	155908.3281

Citalopram	tot_other	0.643010682	5.12E-07	10216595.5	2879854.336
Hydrochlorothiazide	ISPps	0.642129493	5.28E-07	-83539326	383211.5665
Trans.3..OHcotinine	tot_MGE	0.641062245	5.47E-07	43442472.5	416819.0788
Trans.3..OHcotinine	ISPps	0.63908957	5.85E-07	10577773.3	127090.9684
O.desmethylvenlafaxine	tot_quinolone	0.637134511	6.25E-07	3784849.7	158401.2149
Gabapentin	catA3	0.636635163	6.36E-07	64697.2667	13.14156834
Atenolol	tot_MDR	0.636456514	6.40E-07	20183802.4	102729.627
Atenolol	tot_protection	0.634681726	6.79E-07	110228042	1006962.884
Naproxen	sul3_1	0.634337017	6.87E-07	7454587.34	33305.66545
Metformin	tot_tetracycline	0.633392337	7.09E-07	5300243.51	6763.008732
Atenolol	tot_integrans	0.633262714	7.12E-07	152767765	1877369.993
Salicylic.Ac	tnpA_4	0.632950533	7.19E-07	4979615.87	1718.406476
Naproxen	tot_tetracycline	0.631999551	7.42E-07	5390861.18	105003.7699
Hydrochlorothiazide	IS630	0.630592911	7.78E-07	-2161617.8	44508.36355
Acesulfame	tot_MGE	0.629792579	7.99E-07	-176622496	44027.50215
Gabapentin	tot_efflux	0.629655045	8.02E-07	33730207.4	5058.600707
Ibuprofen	IncP_oriT	0.629390492	8.10E-07	-27883778	78629.51733
Acetaminophen	tetW	0.629083416	8.18E-07	3472502.02	600.460208
Citalopram	tot_efflux	0.626749448	8.83E-07	21711458	7913692.935
Gabapentin	IS630	0.626326412	8.95E-07	3313655.32	522.9697252
Gabapentin	blaNDM	0.626240206	8.98E-07	222945.821	17.85697495
Citalopram	intI3	0.623791072	9.73E-07	-125732669	31583346.42
Gabapentin	ermX_2	0.6207243	1.07E-06	-63959312	7931.273856
Atenolol	dfra25	0.619178636	1.13E-06	369638.518	3246.071874
Hydrochlorothiazide	blaNDM	0.617865564	1.18E-06	43834.4018	1505.395126
Ibuprofen	tetQ	0.617667242	1.19E-06	3884523.48	11129.47783
Hydrochlorothiazide	qepA	0.616866592	1.22E-06	-15572468	247871.0113
Codeine	tot_protection	0.616689337	1.22E-06	212741672	4110983.193
Hydrochlorothiazide	blaSHV11	0.616672817	1.22E-06	-159103.19	5474.668016
Ibuprofen	tot_mobility	0.615574081	1.27E-06	369932152	316628.9119
Ibuprofen	ttgA	0.614834857	1.30E-06	3878595.26	5817.649138
Paraxanthine	ant6-ia	0.614629078	1.31E-06	1934497.38	148.5295813
Nicotine	tot_tetracycline	0.61431968	1.32E-06	4101654.58	46677.73852
Acesulfame	blaNDM	0.613987114	1.33E-06	144505.1	53.13787082
O.desmethylvenlafaxine	tot_arg	0.613040746	1.37E-06	113910293	747882.5379
Salicylic.Ac	tetW	0.612593114	1.39E-06	3811340.59	1773.030597
Hydrochlorothiazide	ttgA	0.612375738	1.40E-06	-9517937.5	53375.92032
Theophylline	ant6-ia	0.611876222	1.43E-06	1936957.68	3452.410492
Ibuprofen	qnrB4	0.611367864	1.45E-06	10869373.5	6026.952337
Ibuprofen	tot_MLSB	0.611213058	1.46E-06	31232493.1	74297.21034
Venlafaxine	orf37-IS26	0.610797206	1.47E-06	13016957	977315.6236
Ibuprofen	ant6-ia	0.609801162	1.52E-06	1957795.43	899.4456945
Trans.3..OHcotinine	tot_tetracycline	0.606437692	1.69E-06	6285929.38	56223.02228
Cotinine	tot_MGE	0.604474831	1.80E-06	52902013.1	368697.4318
Acesulfame	catA3	0.604340261	1.80E-06	14947.3381	38.51866457
O.desmethylvenlafaxine	tot_other	0.604300046	1.81E-06	9343856.25	78805.04805
Cotinine	ISPps	0.604288803	1.81E-06	13315589.4	112564.9073
Caffeine	ant6-ia	0.603851051	1.83E-06	1933929.76	118.4611553
Caffeine	tot_tetracycline	0.602598425	1.90E-06	6833918.33	2427.510264
Acesulfame	ISPps	0.601754651	1.96E-06	-52932603	13160.04496
Paraxanthine	IncP_oriT	0.601593245	1.96E-06	-24642786	12665.83421
Paraxanthine	qnrB4	0.600375037	2.04E-06	10912841	983.2093626
O.desmethylvenlafaxine	cmxA	0.599674102	2.08E-06	67842.9398	1923.046895

Saccharin	tot_tetracycline	0.599577081	2.09E-06	6115799.43	14371.07351
Gabapentin	tot_arg	0.599465331	2.10E-06	189432363	16756.03958
Atenolol	ttgB	0.599178639	2.12E-06	-6323430.9	104173.0449
O.desmethylvenlafaxine	qnrB_2	0.598353164	2.17E-06	27900.6886	618.2780606
Venlafaxine	qnrB4	0.598324108	2.17E-06	4446968.91	414215.2724
Acesulfame	tot_MDR	0.597599458	2.22E-06	10574900.8	3341.079353
Paraxanthine	tot_mobility	0.5973153	2.24E-06	376992646	51365.00456
Citalopram	tot_MLSB	0.596768955	2.28E-06	-73813602	12480597.1
Nicotine	ant6-ia	0.594466962	2.44E-06	1842633.61	2240.937217
Ibuprofen	tot_arg_mob	0.594123625	2.47E-06	780005714	457979.2004
Citalopram	dfrA25	0.593437937	2.52E-06	134087.887	55642.82123
O.desmethylvenlafaxine	tot_phenicol	0.593341476	2.53E-06	135707.535	2440.88865
Paraxanthine	ttgA	0.592651071	2.58E-06	4056716.49	940.8443611
Venlafaxine	tot_MLSB	0.592256096	2.61E-06	-46639920	5082573.369
Theophylline	qnrB4	0.5915599	2.67E-06	11007211	22743.96447
Codeine	tot_arg	0.590933623	2.72E-06	420360210	6175353.391
Saccharin	ant6-ia	0.590109548	2.79E-06	1919784.6	695.4283319
Codeine	ant6-ia	0.589981107	2.80E-06	2246041.92	35603.74017
Trans.3..OHcotinine	ant6-ia	0.589314298	2.85E-06	1942653.1	2704.537146
Metformin	sul3_1	0.588089821	2.96E-06	8016024.13	2068.314056
Theophylline	IncP_oriT	0.587503171	3.01E-06	-22560908	291774.0885
Naproxen	tot_MGE	0.586329069	3.12E-06	59608326	732305.9794
Naproxen	ISPps	0.585699192	3.18E-06	15402563.2	223496.1805
Venlafaxine	intI3	0.585335151	3.21E-06	-38686549	12529131.83
Theophylline	tot_mobility	0.584770776	3.27E-06	384457626	1184633.753
Acesulfame	tot_arg_mob	0.583874232	3.35E-06	13030304.2	147830.4164
Paraxanthine	tot_MLSB	0.583625987	3.38E-06	34380900.4	11962.78458
O.desmethylvenlafaxine	tetL_2	0.58292526	3.45E-06	132049.802	6076.205085
Venlafaxine	ttgB	0.582889909	3.45E-06	-10417977	734905.6832
Ibuprofen	ermX_2	0.581156061	3.63E-06	29440849.4	70980.28925
Naproxen	ermB_2	0.580955344	3.65E-06	122942.626	16540.75381
Paraxanthine	tot_arg_mob	0.580124667	3.74E-06	786576233	74515.3667
Metformin	ant6-ia	0.579895052	3.77E-06	1963998.29	316.3765718
Theophylline	ttgA	0.578871115	3.88E-06	4209942.16	21675.5782
Venlafaxine	ermX_2	0.575714289	4.26E-06	-47728522	4906160.139
Cotinine	ant6-ia	0.575498842	4.28E-06	1964328.4	2432.027594
Theophylline	tot_tetracycline	0.575473406	4.29E-06	8271223.35	68815.16401
Atenolol	mefA	0.575056062	4.34E-06	602445.959	5405.725734
Atenolol	blaNDM	0.573859986	4.49E-06	331038.151	1537.042113
Atenolol	tetQ	0.573827795	4.50E-06	-2335424.4	104466.433
Atenolol	tot_efflux	0.573530591	4.54E-06	64777631.9	434194.8332
Citalopram	ermX_2	0.572791463	4.63E-06	-72213663	11976297.55
O.desmethylvenlafaxine	dfrA25	0.571873689	4.76E-06	100773.86	1540.740526
O.desmethylvenlafaxine	tot_beta	0.570037953	5.01E-06	1109195.47	9253.972059
Theophylline	tot_MLSB	0.56993713	5.03E-06	36345990.6	275580.1447
Old.Sucralose	tot_other	0.569935375	5.03E-06	554184.563	8256.188983
Acesulfame	tot_mobility	0.569518781	5.09E-06	-121727128	99362.37582
Theophylline	tot_arg_mob	0.569100851	5.15E-06	796218881	1720218.821
Ibuprofen	intI3	0.56885884	5.19E-06	167002902	178085.647
Caffeine	blaSHV11	0.568433921	5.25E-06	1255804.45	75.86023992
Naproxen	ant6-ia	0.56726541	5.43E-06	1990535.33	4866.985342
Metformin	strB	0.567106409	5.45E-06	730596.191	140.3072881
Paraxanthine	blaSHV11	0.566490775	5.55E-06	1271648.88	94.18088895

Acesulfame	intI3	0.566451137	5.55E-06	-136052884	57838.63145
Gabapentin	ttgA	0.565810533	5.66E-06	-2202115.8	606.3520551
Gabapentin	tot_integrans	0.565693638	5.68E-06	90932537.3	19862.39
Paraxanthine	tot_tetracycline	0.565677566	5.68E-06	8715082.57	2930.808978
Theophylline	blaSHV11	0.565638101	5.68E-06	1271025.27	2192.200823
Nicotine	qnrB4	0.564734415	5.83E-06	10522182.4	14643.22445
Trans.3..OHcotinine	ermB_2	0.564542303	5.86E-06	215741.951	8909.707602
Citalopram	tolC_2	0.563751792	6.00E-06	282589.126	45080.81421
Gabapentin	tot_quinolone	0.563490686	6.04E-06	25643273.5	3386.173909
Nicotine	IncP_oriT	0.562687119	6.18E-06	-29109160	188138.8686
Caffeine	qnrB4	0.562632694	6.19E-06	11263747.4	767.0950338
Nicotine	blaSHV11	0.56235262	6.24E-06	1193555.27	1438.376322
Saccharin	ermB_2	0.562161941	6.27E-06	161551.975	2285.046476
Nicotine	tot_mobility	0.561622513	6.37E-06	356744056	764853.3049
O.desmethylvenlafaxine	mcr1	0.561014548	6.48E-06	-75006.421	2381.63112
Ibuprofen	ttgB	0.559771137	6.71E-06	1803386.38	10387.98963
Cotinine	blaSHV11	0.559355487	6.78E-06	1251809.3	1580.900458
Gabapentin	qnrB_2	0.558070888	7.03E-06	101206.82	13.55050966
Cotinine	strB	0.557788807	7.09E-06	735220.381	1074.079595
Nicotine	ttgA	0.556671314	7.31E-06	3693121.38	14003.28711
Venlafaxine	IncP_oriT	0.556618559	7.32E-06	-97957752	5154298.416
Citalopram	mefA	0.556210048	7.41E-06	200270.345	93066.44682
Gabapentin	IncP_oriT	0.555038582	7.65E-06	-104248803	8033.707
Paraxanthine	ermX_2	0.554226408	7.82E-06	32545937	11422.84832
Saccharin	blaSHV11	0.553877678	7.90E-06	1248829.46	444.753533
Ibuprofen	blaSHV11	0.553684071	7.94E-06	1297124.02	566.3781863
Acesulfame	tetQ	0.553355837	8.02E-06	-12691464	3440.613709
Acesulfame	tot_arg	0.553011183	8.09E-06	134757432	48468.0406
Cotinine	ermB_2	0.552993433	8.10E-06	275514.993	8023.604726
Trans.3..OHcotinine	blaSHV11	0.551310332	8.48E-06	1265852.88	1727.012001
Hydrochlorothiazide	IncP_oriT	0.551131723	8.52E-06	-185950290	679316.4442
Caffeine	tot_mobility	0.551097066	8.53E-06	401337215	39785.29292
Citalopram	ttgB	0.550312656	8.72E-06	-13023688	1750694.257
Paraxanthine	intI3	0.54909016	9.01E-06	172107175	28821.46743
Nicotine	tot_arg_mob	0.546801908	9.59E-06	755685140	1110906.474
Caffeine	IncP_oriT	0.546475259	9.68E-06	-17167561	9739.582536
Atenolol	tolC_2	0.5459514	9.82E-06	504734.984	2539.997029
Caffeine	ttgA	0.545498004	9.94E-06	4519005.68	727.9524868
Citalopram	strB	0.544990889	1.01E-05	213778.163	64972.8642
O.desmethylvenlafaxine	ant6-ia	0.544404285	1.02E-05	687352.376	4082.685041
O.desmethylvenlafaxine	tot_replacement	0.544111053	1.03E-05	-1810882.8	32492.43913
Nicotine	tot_MLSB	0.544007406	1.03E-05	30472572.7	177423.4286
Naproxen	blaSHV11	0.54200554	1.09E-05	1281190.47	3138.713888
Acesulfame	tot_efflux	0.541671107	1.10E-05	23604801.5	14162.56885
Acesulfame	tot_MLSB	0.54040349	1.14E-05	-77531371	22829.20144
Theophylline	ermX_2	0.540364077	1.14E-05	34553691.7	262957.415
Cotinine	tet44	0.540035223	1.15E-05	39046.0287	1620.980511
Caffeine	tot_arg_mob	0.539481312	1.17E-05	817399652	57932.94336
Acesulfame	IS630	0.53806864	1.21E-05	2279035.35	1463.262938
Nicotine	tet44	0.53802227	1.22E-05	-13610.953	1468.631703
Saccharin	qnrB4	0.537338779	1.24E-05	11341459.3	4455.672811
Cotinine	mefA	0.536199318	1.28E-05	989350.173	1496.301812
Theophylline	intI3	0.53601784	1.28E-05	176898658	663864.2669

Caffeine	tot_MLSB	0.533260882	1.38E-05	40904913.8	9224.777421
Metformin	tot_MGE	0.53230512	1.42E-05	75271759.3	45044.94696
Venlafaxine	tot_efflux	0.532004318	1.43E-05	51384180.1	2996234.885
Gabapentin	tot_beta	0.531376995	1.45E-05	2207417.54	202.7865038
Hydrochlorothiazide	ttgB	0.530439935	1.49E-05	-20927355	93129.52608
O.desmethylvenlafaxine	bacA	0.529367337	1.53E-05	-1584549.9	28595.96425
Caffeine	ermB_2	0.529072661	1.54E-05	516827.136	374.3761991
Naproxen	strB	0.528458481	1.57E-05	766119.48	2110.333228
Citalopram	catA3	0.528395598	1.57E-05	74482.1638	18888.06792
Naproxen	mefA	0.528278068	1.57E-05	1005749.12	2993.849377
Paraxanthine	ttgB	0.527908365	1.59E-05	2399122.86	1663.207062
Metformin	blaSHV11	0.52748342	1.61E-05	1299509.03	199.4193056
Trans.3..OHcotinine	qnrB4	0.525215348	1.70E-05	11643539.3	17156.64577
Hydrochlorothiazide	tolC_2	0.523546647	1.78E-05	101518.111	2357.01306
Atenolol	catA3	0.522382434	1.83E-05	163975.732	1074.500349
Acesulfame	qnrB_2	0.521766074	1.86E-05	53581.1642	39.44690903
Acetaminophen	strB	0.521750866	1.86E-05	1114772.59	34.23395757
O.desmethylvenlafaxine	tolC_2	0.521750472	1.86E-05	276574.632	1225.181347
O.desmethylvenlafaxine	blaCTX-M	0.520281949	1.94E-05	466974.024	5888.992612
Ibuprofen	ermB_2	0.520008513	1.95E-05	688623.575	2806.97489
Metformin	ISPs	0.519228682	1.99E-05	21340694	13596.81407
Citalopram	IncP_oriT	0.518492698	2.03E-05	-114388748	12203447.73
Trans.3..OHcotinine	strB	0.518389075	2.03E-05	773364.997	1141.801934
Trans.3..OHcotinine	mefA	0.517589242	2.08E-05	1016844.89	1618.930011
Acesulfame	tot_beta	0.517354556	2.09E-05	1342240.54	601.5562861
Saccharin	mefA	0.516891867	2.11E-05	1005012.02	415.7603331
Codeine	dfra25	0.516315304	2.14E-05	755006.911	12342.5638
Ibuprofen	tot_tetracycline	0.515684498	2.18E-05	11026057.5	17064.74534
Nicotine	ermX_2	0.515440344	2.19E-05	28992166.5	169259.0512
Saccharin	tot_mobility	0.515170275	2.21E-05	413455865	228820.3426
Theophylline	ttgB	0.515011984	2.22E-05	2682795.23	38299.69807
Saccharin	strB	0.514551602	2.24E-05	767951.916	292.4042593
Nicotine	strB	0.514504477	2.25E-05	739239.415	938.9664266
Caffeine	strB	0.513824833	2.29E-05	785640.964	49.24372698
Nicotine	intI3	0.513650368	2.30E-05	161816100	428227.5083
Acesulfame	ermX_2	0.513025815	2.33E-05	-74312462	21798.61069
Venlafaxine	ant6-ia	0.512479294	2.37E-05	1231457.14	57590.40236
Venlafaxine	blaNDM	0.512242624	2.38E-05	293901.404	10419.54173
Saccharin	IncP_oriT	0.511318491	2.44E-05	-14289240	56040.87075
Codeine	tot_efflux	0.511169106	2.44E-05	113171406	1703188.019
Caffeine	mefA	0.510475879	2.49E-05	1037595.8	69.66031731
Salicylic.Ac	strB	0.508976572	2.58E-05	1133429.98	101.1845812
Saccharin	ttgA	0.508691749	2.60E-05	4757212.76	4182.103206
Hydrochlorothiazide	emrD_1	0.507909166	2.65E-05	4712341.68	37669.46321
Caffeine	tet44	0.507862218	2.66E-05	100191.664	75.03726979
Theophylline	ermB_2	0.507764118	2.66E-05	719713.803	10639.20866
Saccharin	tot_arg_mob	0.5069494	2.72E-05	832127213	334014.5253
Codeine	tot_MDR	0.505097195	2.85E-05	32917081.9	381705.4723
Acesulfame	tot_tetracycline	0.503810449	2.94E-05	-17354838	5493.773621
Paraxanthine	ermB_2	0.50380132	2.94E-05	755384.057	455.1088148
Citalopram	tot_quinolone	0.503782915	2.94E-05	23911242.8	5040145.728
Caffeine	ermX_2	0.502791365	3.02E-05	39350490.9	8780.740905
Caffeine	intI3	0.502669107	3.03E-05	187331511	22248.66058

Venlafaxine	strB	0.502396518	3.05E-05	404024.072	25571.31267
Metformin	mefA	0.501276153	3.13E-05	1040178.47	188.0083747
Hydrochlorothiazide	qnrB_2	0.500368907	3.21E-05	-7683.9004	1092.877447
Atenolol	tot_tetracycline	0.500201396	3.22E-05	344406.528	163464.9856
Acetaminophen	aadA6	0.499246734	3.30E-05	874249.745	36.85843636
Old.Sucralose	tot_MDR	0.498877513	3.33E-05	8609358.34	4864.664771
O.desmethylvenlafaxine	catA3	0.498214899	3.38E-05	67864.5948	517.8417549
Saccharin	tot_MLSB	0.497767723	3.42E-05	43827997.8	53023.39304
Metformin	tet44	0.496737188	3.51E-05	105810.949	202.1511183
Theophylline	strB	0.496008447	3.57E-05	809608.679	1403.252016
Gabapentin	qepA	0.495597054	3.61E-05	24769253.4	2639.052798
Trans.3..OHcotinine	tot_mobility	0.495523534	3.61E-05	434842790	874598.504
Naproxen	tet44	0.49468536	3.69E-05	109877.88	3135.887376
Theophylline	tet44	0.494359987	3.72E-05	130825.137	2146.537377
O.desmethylvenlafaxine	tot_integrans	0.493994867	3.75E-05	58298778.2	823883.1973
Ibuprofen	tot_arg	0.493955459	3.76E-05	410073562	141350.2885
Atenolol	strB	0.493704191	3.78E-05	572631.869	3549.676358
Codeine	blaSHV11	0.492683373	3.87E-05	1529867.4	21570.62213
Theophylline	mefA	0.491946955	3.94E-05	1072585.1	1983.520971
Cotinine	qnrB4	0.491649211	3.97E-05	12078014.9	15130.77437
Trans.3..OHcotinine	IncP_oriT	0.491072527	4.03E-05	-8917466.4	214052.1228
Nicotine	mefA	0.490460843	4.09E-05	1000534.97	1303.170767
Metformin	ermB_2	0.489501906	4.19E-05	741480.829	982.9825837
Paraxanthine	tot_arg	0.489109341	4.23E-05	409583588	23150.36214
Citalopram	tetQ	0.48895108	4.24E-05	-7591759	1696031.29
Gabapentin	tetQ	0.488901152	4.25E-05	-4929504.2	1081.739632
Paraxanthine	tet44	0.488863399	4.25E-05	140353.677	91.68072618
Paraxanthine	strB	0.488327292	4.31E-05	817861.761	59.81208585
Salicylic.Ac	aadA6	0.488244813	4.32E-05	893470.199	109.071668
Trans.3..OHcotinine	tot_arg_mob	0.488055992	4.34E-05	862839719	1277230.982
Trans.3..OHcotinine	ttgA	0.487927771	4.35E-05	5166477.41	15964.58836
Paraxanthine	mefA	0.487838888	4.36E-05	1079579.36	84.8274446
Saccharin	tet44	0.486535245	4.50E-05	105328.883	436.5466001
Nicotine	ermB_2	0.486237475	4.53E-05	479871.212	6861.206612
Trans.3..OHcotinine	tet44	0.485956394	4.56E-05	119558.806	1697.878416
Gabapentin	tot_protection	0.48590181	4.57E-05	103534183	9918.71128
Nicotine	ttgB	0.485306485	4.63E-05	2027770.07	24516.44201
Ibuprofen	tot_protection	0.484008504	4.78E-05	213262042	91378.5697
O.desmethylvenlafaxine	dfrB	0.483502358	4.84E-05	-327106.77	2355.734349
Metformin	qnrB4	0.482704364	4.93E-05	12256446.7	1944.834971
Acesulfame	tot_quinolone	0.482634856	4.94E-05	19054541.7	9466.350742
O.desmethylvenlafaxine	blaSHV11	0.482085188	5.01E-05	523068.355	2542.290512
Theophylline	tot_arg	0.481943644	5.03E-05	411761255	535585.0681
Gabapentin	tetJ	0.481312171	5.10E-05	52815.6412	6.075557324
Acesulfame	tot_integrans	0.480906829	5.15E-05	54895368.4	55334.87367
Acesulfame	ttgA	0.480633418	5.19E-05	-3294036	1688.6391
Hydrochlorothiazide	catA3	0.480350255	5.22E-05	3805.4057	978.0488681
O.desmethylvenlafaxine	tetJ	0.478782572	5.42E-05	28588.6013	267.6981481
Trans.3..OHcotinine	tot_MLSB	0.47819253	5.50E-05	48879679.4	202560.6788
Citalopram	IS630	0.478048895	5.52E-05	4401203.53	723209.4842
Naproxen	qnrB4	0.476806417	5.68E-05	12351306.3	30056.60636
Ibuprofen	mefA	0.476316775	5.75E-05	1103020.09	509.9462005
Gabapentin	ttgB	0.47612329	5.77E-05	-7672483.8	1044.34301

Caffeine	ttgB	0.474449682	6.01E-05	3499722.64	1273.219772
Cotinine	tetW	0.473500078	6.14E-05	-353776.68	16006.40666
Paraxanthine	tot_protection	0.473218039	6.19E-05	214385327	14879.05406
Acetaminophen	tot_deactivation	0.472124415	6.35E-05	55065804.8	1652.105974
Ibuprofen	tot_integrans	0.470140388	6.65E-05	350514120	168279.5068
Acetaminophen	aph3-iii	0.468580169	6.90E-05	794653.917	26.33290043
Atenolol	tot_quinolone	0.466614795	7.22E-05	50741128.5	278252.8611
Saccharin	ermX_2	0.466177257	7.30E-05	42661433.8	50322.58624
Atenolol	tot_other	0.465673626	7.38E-05	31540654.4	141774.7649
Salicylic.Ac	aph3-iii	0.465662252	7.39E-05	804519.872	78.50378563
O.desmethylvenlafaxine	tot_arg_mob	0.465621781	7.39E-05	243058279	1957756.226
Theophylline	tot_protection	0.464553048	7.58E-05	216198730	343646.616
Saccharin	intI3	0.464442889	7.60E-05	196445471	127303.8578
Nicotine	tot_arg	0.463339486	7.80E-05	398941084	346053.1695
Cotinine	tot_mobility	0.463284805	7.81E-05	457319692	770996.424
Caffeine	tot_arg	0.462668302	7.92E-05	416062437	18147.65045
Old.Sucralose	tot_arg	0.461226077	8.19E-05	106209020	70573.82269
Salicylic.Ac	tot_deactivation	0.461009351	8.23E-05	55948874.1	4885.690563
Cotinine	tot_arg_mob	0.460845458	8.26E-05	890501064	1131100.764
Metformin	tetW	0.460730619	8.28E-05	-100459.04	2048.981749
Acesulfame	IncP_oriT	0.458865381	8.65E-05	-114989252	22098.81238
Gabapentin	tot_phenicol	0.454740838	9.50E-05	592064.484	48.86134049
Paraxanthine	tot_integrans	0.454559393	9.54E-05	354886100	27261.67794
Cotinine	ttgA	0.453826176	9.71E-05	5609555.31	14040.66131
Venlafaxine	blaSHV11	0.453718216	9.73E-05	861557.947	35867.49215
Citalopram	qnrB_2	0.45138493	0.0001026	116533.472	19262.46569
Atenolol	IS630	0.449102088	0.0001081	8158495.72	40192.16693
Ibuprofen	dfrA25	0.448755796	0.0001089	720017.783	287.8397683
O.desmethylvenlafaxine	tot_protection	0.447996977	0.0001108	77576801.6	422062.6028
Saccharin	ttgB	0.447964739	0.0001109	3758954.41	7358.902749
Trans.3..OHcotinine	intI3	0.447487509	0.0001121	207936930	487030.6083
Atenolol	ermB_2	0.447333126	0.0001125	-565649.53	25444.43765
Trans.3..OHcotinine	ermX_2	0.446674793	0.0001142	47647092.5	192032.0412
Naproxen	tot_mobility	0.44666585	0.0001142	473225031	1527542.498
O.desmethylvenlafaxine	qnrB4	0.446254493	0.0001152	4559131.94	24931.40935
Cotinine	IncP_oriT	0.446236938	0.0001153	-978524.6	186256.7758
Old.Sucralose	blaNDM	0.445671507	0.0001168	160254.005	72.53931577
Gabapentin	tot_tetracycline	0.444973604	0.0001186	-4977036.9	1727.704976
Nicotine	tot_protection	0.444236669	0.0001206	208577094	221507.0817
Naproxen	tot_arg_mob	0.443744243	0.0001219	914476126	2239704.523
Acesulfame	tot_protection	0.443495315	0.0001226	72837646.1	28567.75687
Theophylline	tot_integrans	0.443072069	0.0001238	359651778	627608.5917
Cotinine	tolC_2	0.443013298	0.000124	729927.981	659.6442462
Ibuprofen	strB	0.442987632	0.000124	866687.983	347.6440659
Atenolol	tet44	0.442598268	0.0001251	-141934.92	5172.166078
Citalopram	qepA	0.442426967	0.0001256	23435408.5	3927441.207
Metformin	tolC_2	0.442068862	0.0001266	732814.584	85.42416639
Caffeine	tot_protection	0.441442746	0.0001284	220071104	11590.4899
Metformin	catA3	0.441301713	0.0001288	254944.032	36.85518304
Naproxen	ttgA	0.44095712	0.0001298	5849990.65	27917.79856
Paraxanthine	dfrA25	0.440245528	0.0001319	722299.254	46.94445268
Ibuprofen	tet44	0.440230127	0.0001319	220035.911	531.0866198
Saccharin	tot_arg	0.43957585	0.0001339	418671349	105194.1827

Cotinine	tot_MLSB	0.438583863	0.0001369	55627699.5	177022.7396
Acesulfame	tot_phenicol	0.436995451	0.0001418	395012.669	144.1045413
Citalopram	tot_tetracycline	0.436925891	0.000142	-8673881.6	2686205.395
Naproxen	tetW	0.436855855	0.0001422	289104.433	31079.8608
Citalopram	emrD_1	0.435413205	0.0001469	9370374.7	648603.503
Theophylline	dfrA25	0.435020746	0.0001481	725673.957	1087.525334
Nicotine	tetW	0.432951917	0.0001551	-237937.95	13943.76782
Naproxen	IncP_oriT	0.432835821	0.0001555	2351383.64	370060.0916
Acesulfame	tetJ	0.431840812	0.0001589	35856.8922	17.36298608
Acetaminophen	tet44	0.431221427	0.0001611	685137.279	48.04969937
Ibuprofen	tot_MDR	0.43025903	0.0001645	32052730.3	8821.361515
Naproxen	tolC_2	0.428616631	0.0001706	742466.071	1309.09137
Caffeine	tolC_2	0.427680996	0.0001741	746911.399	30.91603427
Hydrochlorothiazide	tot_beta	0.427353153	0.0001754	1010012.12	15564.07624
Acesulfame	ermB_2	0.426334299	0.0001793	-3030889.3	833.8087005
Naproxen	tot_MLSB	0.426290586	0.0001795	58625642.8	352051.4684
Trans.3..OHcotinine	tolC_2	0.424676286	0.0001859	743933.437	711.6264809
Trans.3..OHcotinine	ttgB	0.424515415	0.0001866	4613970.28	27942.82405
Trans.3..OHcotinine	tot_arg	0.423887261	0.0001891	427996929	402632.4777
Paraxanthine	tot_MDR	0.423758731	0.0001897	32079291.2	1441.313814
Saccharin	tolC_2	0.421995825	0.0001971	740199.311	182.3418248
Acesulfame	qepA	0.421833412	0.0001978	19847507.6	7362.005842
Acesulfame	strB	0.421198869	0.0002005	306991.682	110.5588074
Hydrochlorothiazide	mefA	0.421104286	0.0002009	64267.3395	4430.596853
Venlafaxine	dfrA25	0.421066474	0.0002011	433710.712	19410.66833
Atenolol	qnrB_2	0.420469631	0.0002037	217992.841	1066.528463
Nicotine	tot_integrans	0.420356081	0.0002042	347349958	403122.3038
Nicotine	tolC_2	0.420193744	0.0002049	723563.315	584.4205124
Saccharin	tot_protection	0.417892082	0.0002153	222108530	67080.8299
Theophylline	tolC_2	0.417653457	0.0002164	758498.909	885.8448964
Theophylline	tot_MDR	0.417437972	0.0002175	32215835	33343.52949
Caffeine	dfrA25	0.416459782	0.0002221	735252.563	36.80880532
O.desmethylvenlafaxine	mdtH	0.416303808	0.0002228	850542.685	9670.57192
Trans.3..OHcotinine	tetW	0.416215916	0.0002232	594773.68	16596.40961
Caffeine	tetW	0.415148421	0.0002284	729660.354	717.8676143
Cotinine	intl3	0.414982992	0.0002292	221925054	427866.0184
Paraxanthine	tolC_2	0.414875537	0.0002298	761100.832	37.91562316
Caffeine	tot_integrans	0.413889129	0.0002347	370089122	21005.94889
Codeine	tot_other	0.413238037	0.000238	47379454.5	555515.9602
Citalopram	tot_beta	0.410835515	0.0002505	2577904.81	282518.0599
Acesulfame	tet44	0.410239259	0.0002537	-614152.28	167.3630171
Nicotine	dfrA25	0.41001601	0.0002549	706694.776	696.4811844
Saccharin	tetW	0.409939929	0.0002553	568383.38	4235.484958
Salicylic.Ac	tet44	0.409841448	0.0002558	722315.219	140.3723332
Old.Sucralose	tot_trimethoprim	0.409397966	0.0002583	927.678593	340.2163805
Cotinine	tot_arg	0.408780014	0.0002617	433181372	360104.3397
Cotinine	ermX_2	0.407755829	0.0002674	54362834.4	167502.833
Metformin	tot_arg_mob	0.407128262	0.000271	956265246	138562.7535
Hydrochlorothiazide	tot_phenicol	0.403572165	0.0002922	207611.929	3925.773923
Acesulfame	aph3-iii	0.403374417	0.0002934	138214.399	87.62591843
Metformin	tot_mobility	0.403127239	0.0002949	507135830	93799.70402
O.desmethylvenlafaxine	orf37-IS26	0.40289122	0.0002964	16200253	55610.07989
Caffeine	tot_MDR	0.402838898	0.0002967	32422609	1132.741544

O.desmethylvenlafaxine	vanYD_1	0.402180783	0.0003009	444628.842	3864.12644
O.desmethylvenlafaxine	tot_vanco	0.402180783	0.0003009	444628.842	3864.12644
Saccharin	dfrA25	0.402016477	0.0003019	734890.794	214.9534246
Naproxen	intl3	0.400311591	0.0003129	230582125	848056.1674