

Erlotinib synergizes with the poly(ADP-ribose) glycohydrolase inhibitor ethacridine in acute myeloid leukemia cells

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Table S1

Patient Demographics					
Sample ID	Diagnosis	Age at Diagnosis	Gender	Cytogenetics	Molecular
130177	AML, M4Eo	62	Male	46,XY,inv(16)(p13.1q22)[8]/46,XY[2]	CBFB-MYH11 +,KIT-
130183	AML	69	Male	46,XY[20]	NPM1+, FLT3-ITD+, FLT3-TKD-
130185	AML	69	Male	45,XY,der(1)t(1;?21)(p13;q11.2),del(5)(q13q33),-7,+8,-10,add(12)(p11.2),-15,add(19)(q13.3),-21,+2mar[5]/45,XY,der(1)t(1;?21)(p13;q11.2),-5,-7,+8,-10,add(12)(p11.2),-15,add(19)(q13.3),-21,+3mar[5]	Not done
130208	AML, M1	21	Male	46,XY[20]	NPM1+, FLT3-ITD+, FLT3-TKD-
130237	AML	66	Male	46,XY,inv(3)(q21q26.2)[3]/45,idem,-7[8]	Not done

Table S1: AML patient demographics

Table S2: Kinase inhibitor vs. Ethacridine Screen - Synergistic Hits in OCI-AML2 cells

Drug ID	Drug Name	EOBA Score (Positive Average)
51	GW583340 dihydrochloride	30.77184297
41	Erlotinib HCl	30.43758104
222	WHI-P 154	20.13326048
298	MP-470	20.27292262
49	GW2974	22.10812172
94	NU7026	17.83329294
205	ABT 702 dihydrochloride	18.19870623
290	CP-724714	17.66650374
24	Gefitinib	17.72786918
294	GSK690693	15.75558624
454	PF 3644022. PF-3644022	15.58273618
391	WYE-354	15.45253236
416	KRN 633. KRN-633	15.16336556
225	ZM 306416 hydrochloride	15.04140718
95	PD 153035	14.47866056
409	PCI-32765	14.2904798
439	NVP-BSK805	13.89232596
315	YM201636	13.87142115
462	RET Inhibitor Example 8 (Free base)	14.47015136
25	Lapatinib ditosylate	14.36911604
465	GDC-0941	12.7873387
147	L 779450	13.86809741
264	MK-2206	12.72352988
273	AG13958	12.75445564
401	MK2 inhibitor. compound 35	12.2438692
224	Ki 8751	12.94986915
139	API-2	11.83008156
383	R406. R-406. NSC-742317	12.20655202
352	WZ4002. WZ-4002	11.07254921
35	LY-294.002	14.05935484
375	BMS 794833. BMS-794833	10.22023736
73	PI-828	11.62187294
65	Compound 52	10.1381685
379	Merck-22-6	11.51830288
284	Bisindoylmaleimide X. HCl salt	9.690687924
64	Chk2 Inhibitor II	10.84130228
400	R788. R-788. Fostamatinib disodium. R935788. R-935788. NSC-745942	9.355367882
448	GSK PERK Inhibitor	9.498289982
353	Pp242	9.241955778
7	GDC-0941 bismesylate	9.203203604
366	XL-184. XL184. BMS-907351. Cabozantinib malate	8.82795209
433	Indirubin. NSC-105327. Courouputine B. Indigo red. Indigopurpurin	8.75581972
358	MK-8033	8.539584258
188	PHA 665752	8.395860869
471	BIX-RSK2 Inhibitor	8.219877221
325	Cyclapolin 9	8.21426945
411	LDN193189. LDN-193189. DM-3189	8.016117669
27	Rapamycin	7.922971889
309	SB590885	9.538849155
157	Tyrphostin AG 1478	10.12531485
459	PTK6 CompoundA	9.027401292
301	PD04217903. PF-04217903	10.73269676
292	CYT11387. CYT387	8.081232215
240	Src I1	7.820374967
21	NH125	8.60234648
449	NQDI-1	7.675429947
262	Janex-1. WHI-P131	7.027091012
52	GW8510	8.146822984
434	AT7867. AT-7867	6.944426332

470	VE-821	7.256648708
440	JNJ-38158471	6.801443449
269	JNJ-38877605	7.113783437
250	PF-04217903	6.762794894
18	AG 1296	7.795786354
103	Dasatanib	8.066966968
29	Vandetanib	7.538005179
275	Akt-I-1	6.953939472
126	PF 573228	8.080302587
365	KU-60019	6.712694389
443	GSK-2118436B. GSK2118436B. Dabrafenib mesylate	6.486627247
453	NVP-BHG712	6.586036872
438	S6K-18	6.225017741
343	PKC theta inhibitor	6.213352089
444	CH5424802	7.480572003
98	Rho Kinase Inhibitor V	6.10119816
415	WZ3146. WZ-3146	6.051706206
13	PD 169316	5.989328573
331	NIK Kinase Inhibitor	5.913207188
154	Bisindolylmaleimide I hydrochloride	7.481438097
247	Pazopanib hydrochloride. GW-786034. Armala. Votrient	5.873965511
289	CC-401	6.39416757
267	LY 333531 mesylate. Ruboxistaurin	6.304517045
468	A 1070722	6.054740785
280	AV951. KRN951. Tivozanib	6.789841872
437	BMS-582664. Brivanib alaninate	5.794426662
398	Rigel JAK Compound II. Prodrug of VI-53	5.78774017
397	JAK compound I (VI-53)	6.448658092
57	SD 208	10.59753778
344	ILK inhibitor	4.825455917
374	AZ 3146. AZ-3146	4.815679292
472	BYL-719. NVP-BYL-719	5.74016716
248	Cediranib. AZD-2171. Recentin	4.784588135
238	SU 16f	5.025008661
302	PF562271	6.571839905
432	XL765. XL-765. SAR245409	4.955863952
67	BIBU 1361 dihydrochloride	6.350164418
43	Wortmannin	4.214136168
257	BIBF-1120. Intedanib. Vargatef	5.116660471
442	SCH900776	4.416218019
189	Diocanoylglycol	3.554355878
478	Apatinib mesylate. YN-968D1	3.055592939
407	Y-39983. RKI-983. SNJ-1656	3.307495861
476	Crenolanib. ARO-002. CP-868596	3.32747737
127	TPCA-1	4.036430171
422	CCT129202. CCT-129202	3.978110298
340	BKM120. BKM-120. NVP-BKM-120	4.859079621
37	PD 98059	3.512848859
229	IKK 16	5.430334251
146	Sorafenib	7.860780447
460	PTK6 Inhibitor CompoundB	4.155434757
69	BIBX 1382 dihydrochloride	6.23424859
260	PD-0332991. PD-332991	2.612012821
341	AB12134C3. PNK inhibitor	3.631570758
47	BMS-345541	2.667739671
184	Imidolo-oxindole PKR inhibitor C16	2.978080709
219	IPA 3	2.912752664
350	ASC-086. APY 86	3.047140325
142	CGP 57380	2.951648241
61	SU 6656	2.717072861
179	TX-1918	2.807794864

1	2-Thio(3-iodobenzyl)-5-(1-pyridyl)-[1.3.4]-oxadiazole	1.722399439
2	AS 601245	0.905536923
3	NU6102	1.744521196
4	BX 795	1.775301853
5	CHIR 98014 isomer	0.94992022
6	CT 99021	1.482171052
8	GSK269962A	0
9	GW 843682X	0.860294855
10	MLN-518	5.45905422
11	NSC 625987	2.355724255
12	NVP-BEZ235	0
14	PD 180970	2.118637742
15	PD 184352	1.605931205
16	PIK 90	0.948176218
17	PIK-75	0
19	AS604850	0
20	JNJ-10198409	0
22	PI-103	1.783267517
23	Axitinib	2.55763063
26	Vatalanib dihydrochloride	3.04679299
28	VX-680	4.436335576
30	Everolimus	0.785996348
31	Fasudil HCl	0.669249607
32	Imatinib Mesylate	0
33	K-252a	0.800017942
34	Lestaurtinib	0.239081479
36	Go 6976	0.415888134
38	PKC-412	1.195645905
39	Roscovitine	0
40	FK-506	0
42	Staurosporine	0.523478072
44	6-bromoindirubin-3'-oxime	1.451737579
45	AR-A014418	1.16245173
46	BAY 61-3606 hydrochloride	2.71136163
48	CGP-74514A hydrochloride	2.965604836
50	GW441756 hydrochloride	4.914997597
53	IRAK-1/4 Inhibitor I	2.473118766
54	PD173074	2.936544399
55	PS1145 dihydrochloride	2.416413329
56	SB-505124 hydrochloride hydrate	0
58	SIS3	0.031145864
59	SKF-86002	0.173011536
60	STO-609 acetic acid	4.490469082
62	ZM 39923 hydrochloride	1.58924005
63	6-[4-(2-Piperidin-1-ylethoxy)phenyl]-3-pyridin-4-ylpyrazolo[1.5-a]pyrimidine	4.704447485
66	AEG 3482	1.328735376
68	CGP 57380	0
70	GTP 14564	0.428690441
71	GW-5074	0
72	LY-364947	0.008583469
74	PQ401	0
75	SB 203580	2.290578304
76	SB 216763	0
77	SB 239063	0.445056063
78	SB 415286	3.376180683
79	SB 431542	0
80	SD 169	0
81	N-(4-Pyridyl)-N'-(2.4.6-trichlorophenyl)urea	0
82	2-(p-Hydroxyanilino)-4-(p-chlorophenyl) thiazole. HCl	1.219897426
83	2-Dimethylamino-4.5.6.7-tetrabromo-1H-benzimidazole	0.855576232
84	5-(3-Methoxy-4-((4-methoxybenzyl)oxy)benzyl)-pyrimidine-2.4-diamine	0
85	PP2	0
86	TPL2	1.120116997
87	TWS119	1.365881873
88	Sorafenib.p-Toluenesulfonate Salt	0
89	IC261	0.708974961

90	JNJ-7706621	0.08172212
91	KN-62	1.852070146
92	KU-55933	0.629082346
93	Kenpaullone	0
96	PIM1/2 Kinase Inhibitor VI	1.507459992
97	eIF-2a Inhibitor II. Sal003	0
99	Nilotinib	0.316472945
100	AZD6244	2.336846739
101	BIBW-2992	2.970809302
102	Purvalanol A	3.929006761
104	CI-1033	2.035231891
105	SC 514	0.774268408
106	CP-690550	3.2842066
107	Bosutinib	1.77365935
108	Pimecrolimus	1.013650091
109	Rottlerin	3.345340889
110	Temsirolimus	3.991250726
111	Ro 31-8220 mesylate	0.604624103
112	7-Cyclopentyl-5-(4-phenoxyphenyl)-7H-pyrrolo[2.3-d]pyrimidin-4-ylamine	0.523105694
113	D4476	0
114	SU-11274	3.47222843
115	Masitinib mesylate	0
116	H 89 dihydrochloride	2.228902611
117	ER 27319 maleate	0
118	CID 755673	0.859264043
119	PF 670462	0.180086325
120	SKF 86002 dihydrochloride	0
121	SL327	3.11161339
122	SP-600125	2.878769966
123	Sphingosine	0
124	SU 4312	0.700566761
125	SU 5416	0.597915191
128	Quercetin	1.129907935
129	FAK Inhibitor 14	0
130	ZM 336372	2.532655937
131	XRP44X	0
132	Necrostatin-1	0
133	PD 407824	0.023115526
134	PHA 767491 hydrochloride	0
135	TCS PIM-1 1	0
136	SKI II	0.908244408
137	10-DEBC hydrochloride	0.073375593
138	FPA 124	0
140	SGI-1776	4.350720614
141	A-443654	0
143	SU 6668	0
144	TAE-684	1.962381665
145	AZD0530	3.188537828
148	PLX4720	0.901829273
149	BI 2536	0
150	Mubritinib	1.718454692
151	BMS-599626	1.378808373
152	Motesanib diphosphate salt	0
153	ZSTK474	1.176442571
155	VX-702	0
156	ZM447439	0.930634883
158	Tyrphostin SU 1498	0
159	U0126	0
160	Chelerythrine chloride	0.345964988
161	Imatinib (free base). Gleevec. Glivec. CGP-57148B. STI-571	0.369558101
162	RDEA-119. AR-119	4.014422065
163	SB 202190. FHPI	3.46461885
164	Alsterpaullone	1.490230977
165	NSC 663284	1.079882394
166	NU 2058	0.949374107
167	PD0325901	0

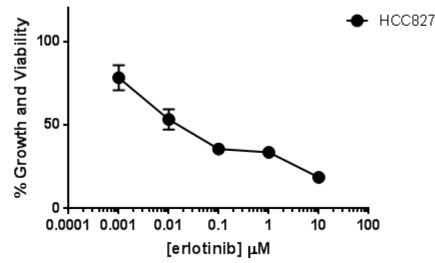
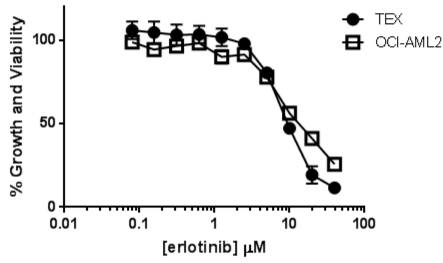
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169	EKI-785. CL-387.785	2.325654139
170	Olomoucine	1.036279525
171	BMS-536924	2.920304613
172	NVP-AEW541. AEW541	1.013650091
173	Sunitinib Malate. Sutent. SU-11248. PHA-290940AD	0.257579952
174	Y-27632	3.271691381
175	AS 252424	1.736310034
176	Ryuvidine	0.425326206
177	TGX 221	1.231557415
178	Dovitinib. CHIR-258. TKI-258. GFKI-258	1.623174956
180	OSU-03012 hydrochloride	2.332792472
181	K-252c. Staurosporine Aglycone	2.616812056
182	IC87114. PIK-39. PIK-23	1.880988049
183	Akt 1/2 Kinase inhibitor	3.446745276
185	SU 9516	1.820491435
186	Compound 401	4.390090049
187	NSC 109555 ditosylate. DDUG	4.416662383
190	R 59-022	4.631298509
191	AG 490. TyrphostinAG 490	4.381504199
192	PD 158780	3.434840869
193	AG 18. RG-50810. TyrphostinA23	1.107630872
194	AG 213. Tyrphostin AG 213	3.004793854
195	AG 494	4.408086724
196	AG 825. Tyrphostin AG 825	2.46788344
197	Genistein	4.362671699
198	HDS 029	0.435565278
199	JNJ 28871063 hydrochloride	3.769678215
200	Lavendustin A. RG 14355	0.03560686
201	PP3	5.987326375
202	Tyrphostin B44. (-) enantiomer	2.631819645
203	SB 218078	0.922302247
204	1-Naphthyl PP1. 1-NA-PP 1	0.203925048
206	5-Iodotubercidin	0.477800089
207	A 83-01	0
208	Dorsomorphin dihydrochloride. BML-275	4.428431031
209	CGK 733	1.9610438
210	LFM-A13	3.118215029
211	TCS JNK 5a	0.742814866
212	BI 78D3	0.27454247
213	Arcyriaflavin A	2.411078819
214	ML 9 hydrochloride	4.126692412
215	Ellagic acid	0.697110981
216	TBB. NSC 231634	0
217	GSK 650394	1.027780081
218	DCA. Dichloroacetate	0
220	(5Z)-7-Oxozeaenol	1.547321274
221	Purvalanol B. NG 95	0.058290563
223	SU 5402	3.327018334
226	ZM 323881 hydrochloride	3.67217498
227	NSC 693868	0
228	Arctigenin. (-)-Arctigenin	2.013078521
230	IMD 0354	0.018118992
231	JX 401	1.326541135
232	EO 1428	1.547800244
233	RWJ 67657	1.182607875
234	PD 198306	3.977251959
235	TCS 359	0.770663968
236	TCS 2312 dihydrochloride	0
237	H 1152. Glycyl dihydrochloride	1.349046038
239	PIM 1 Inhibitor 2	0.754125846
241	PP-1. PP1. AGL-1872. Tyrphostin-PP1	1.436435369
242	HA 1100 hydrochloride. Hydroxyfasudil	0
243	Cyclopolin9	1.77943098
244	C-1	0.528788738
245	DMPQ dihydrochloride	0.817225517

246	PF-02341066. PF-2341066	4.517503672
249	XL-880. GSK-1363089. EXEL-2880. GSK-089. foretinib	4.875536641
251	GDC-0879. AR-00341677	3.095807926
252	ABT-869. Linifanib. AL-39324. RG-3635	6.838466573
253	AZD-1152. Barasertib	0.667819826
254	Enzastaurin. LY-317615	2.05709975
255	AP-24534	2.346660985
256	MLN-8237	0.436876408
258	PHA-739358. Danusertib	1.073237806
259	AZD-7762 hydrochloride	0.456836473
261	Brivanib. BMS-540215	0.03560686
263	GSK-1904529A. GSK1904529A	2.488991
265	SGX-523	5.593120706
266	XL-147. XL147. SAR-245408	3.776356661
268	Alvocidib. HMR-1275. L-868275. MDL-107826A. NSC-649890. L-868276. Flavopiridol	1.151724582
270	GSK-461364. GSK461364	0.03055973
271	BI-6727. volasertib	0
272	AC220	1.679649096
274	Akt-I-1.2	2.715645309
276	AMG-47a	0
277	AMG-Tie2-1	0.37881874
278	AT9283	0.517835253
279	AT-7519	2.763297257
281	AV-412. MP-412	1.259583711
282	AZ-960	1.474724899
283	BI-D1870	2.409734806
285	BMS-2	1.988540986
286	BMS-3	1.518827347
287	BMS-5	0
288	BX912	3.6192866
291	CYC-116	0.56482741
293	E7080	1.17085105
295	Ki20227 (+/-)	0
296	KU0063794	0
297	Merck-5. Mk-5	1.222415627
299	PD173955	2.28886885
300	PD173955-Analogue 1	3.4132416
303	PHA690509	0
304	PI-93	2.51972087
305	PIK-294	4.203363213
306	R1487	0.277987268
307	RHO-15	0
308	SB242235	0.627696098
310	SD-06	0
311	SNS-032. BMS387032	0
312	SNS-314	1.374540954
313	SR3677	1.774412841
314	TAK-715	0.290430077
316	MK-1775. MK1775	0.927730103
317	Lim2 Kinase Inhibitor	2.050995128
318	AZD-1152-HQPA. Barasertib	0
319	ERK2 inhibitor	0.72564669
320	PV-1019. NSC-744039	0
321	MAZ51. MAZ-51	2.252187929
322	IC86621. IC-86621	4.573404506
323	ST638. ST-638	4.799359981
324	TG003. TG-003	3.027454146
326	PF431396. PF-431396	2.957009057
327	(+)-P276. P276-00	2.902379472
328	CX-4945	3.862310507
329	Dianilinopyrimidine_01	1.992405772
330	BIRB 796. Doramapimod	0.72535681
332	Neratinib. HKI-272. CPD-820	2.159094672
333	EMD-1214063	1.474603354
334	SMG-1 Compound 467	1.347675983
335	ENMD-2076. ENMD-981693	1.582161035

336	AS-703026. MSC1936369B	0.145750953
337	AZD-8055. AZD 8055. AZD8055	1.567173469
338	OSI-027 hydrochloride	2.662123008
339	AMG-900	0.202359729
342	PERK inhibitor	2.981688335
345	PF-04691502. PF4691502. PF-502	3.712879986
346	ASC-033. APY 33	5.41561985
347	ASC-069. APY 69	0.126776457
348	ASC-081. APY 81	6.818668539
349	ASC-082. APY 82	0.903548656
351	Quinalizarin	2.244000449
354	OSI-906. Linsitinib	0.390725937
355	INCB018424. Ruxolitinib	4.476957715
356	PLX-4032. Vemurafenib. Zelboraf	3.36671892
357	BMS-754807	4.823509223
359	GSK-1120212	0
360	BGT-226. NVP-BGT-226. NVP-BGT226	0.183436803
361	TG-101348	0
362	Cdk1/2 Inhibitor III	0.585423524
363	RO-5126766	0
364	BS-181 hydrochloride	5.479560293
367	CP466722. CP-466722	1.638802742
368	XMD8-92. XMD-8-92	2.469645588
369	AZ628. AZ-628	2.456269111
370	S-99	3.097172149
371	CHIR-124	0.376294577
372	AZD-7762. AZD 7762	0
373	LY2784544. LY-2784544	2.162175252
376	PI3-Kinase a Inhibitor 2	2.08864383
377	BIX 02189. BIX-02189	5.483215553
378	IRAK4 Inhibitor	0.185350462
380	PF 4708671. PF-4708671	2.632182516
381	PHA-793887	0.191784579
382	AZD5438. AZD-5438	0.759631589
384	HMN-214. IVX-214	3.279145496
385	ON-01910. Estybon	2.998965619
386	AZD8330. AZD-8330. ARRY-424704. ARRY-704	0.021372867
387	RAF265. RAF-265. CHIR-265	2.359076945
388	Tipifarnib. NSC-702818. R-115777. Zarnestra. IND 58359	1.065311567
389	CAL-101. GS-1101	3.754246458
390	PIK-294	4.834017635
392	TC-A 2317 hydrochloride	0.310897052
393	ARQ-197. Tivantinib	1.673901832
394	AZD-4547	3.945084399
395	AZD-1480. AZD1480	4.368620051
396	BAY 73-4506. Regorafenib	0.680794971
399	TBK1 Inhibitor	2.827820594
402	GLPG-0259. Compound A	1.764909572
403	ASP-3026	4.490049925
404	SJN 2511	0.2561214
405	BGJ-398. NVP-BGJ-398. NVP-BGJ398	3.255158099
406	BMS 777607. BMS-777607	2.02093259
408	GSK-1059615. GSK-615	2.342556014
410	Y-27632	0
412	A 769662. A-769662	3.637227831
413	WZ8040. WZ-8040	3.254761385
414	Pelitinib. EKB-569. WAY-EKB-569	4.051705026
417	MGCD-265	2.995511343
418	OSI-930	3.055792586
419	NVP-ADW742. ADW-742. ADW. GSK-552602-A. NVP-ADW-742	4.412517534
420	KW 2449. KW-2449	1.968614327
421	SB-525334	1.466576995
423	Aurora A Inhibitor I	4.935585875
424	Hesperadin	2.56461991
425	PHA-680632	3.838696088
426	PD318088	2.927543736

427	LY2228820. LY-2228820	2.380379199
428	AS605240. AS-605240	3.446794976
429	VX-745	2.885088482
430	AZD6482	1.928972704
431	TG100-115. TG-100-115. TG-100115	5.898152092
435	AEE 788. AEE-788. NVP-AEE-788	4.06004754
436	AZD-5363. AZD5363	6.310115627
441	OSI-TAK1 inhibitor	2.452566166
445	AT-7519 hydrochloride. AT7519 hydrochloride	1.838197114
446	LY2835219. LY-2835219	5.838433354
447	AZ TAK1 Inhibitor	1.846887949
450	PX-866. DJM-166. DJM-2-166	4.389135938
451	TCS 2312	0.49656892
452	OICR0000857A	2.908897155
455	GSK 2334470. GSK-2334470	4.167293714
456	TTP 22	3.541177564
457	GW 788388. GW-788388	2.77599844
458	TC-DAPK 6	2.493616281
461	OICR0000666A01	2.44385345
463	CCT137690	0.678844499
464	AMG458	1.588283994
466	MK-5108. VX-689	4.613947091
467	BAY 57-9352. Telatinib	0.948409116
469	Dacomitinib hydrate	0.636678924
473	PHA-848125. PHA-848125AC	0.881398253
474	LY-2157299	0.41695833
475	WAY-600	6.27797149
477	WYE-125132. WYE-132	1.617313899
479	MLN8054. MLN-8054	0.519681572
480	Dinaciclib. MK-7965. NSC-727135. SCH-727965	0.161138734

Figure S1



Cell Line	Avg IC50 (μM) (n=3)
TEX	8.99
OCI-AML2	15.61

Cell Line	Avg IC50 (μM) (n=3)
HCC827	0.09

Figure S1: Erlotinib sensitivity in TEX and OCI-AML2 cells

TEX, OCI-AML2, and HCC827 cells were treated with increasing concentrations of erlotinib for 72h. Growth and viability was measured using the SRB assay (TEX, OCI-AML2) or Cell Titer Fluor (HCC827) and calculated relative to vehicle-treated cells. Results depict average percent growth and viability \pm SD from a representative experiment performed in triplicate. Data are representative of three independent experiments.

Figure S2

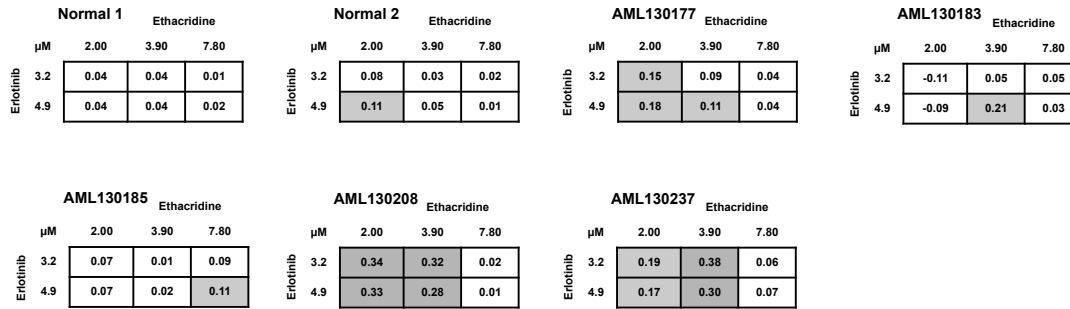


Figure S2: EOBA synergy tables for combination-treated primary AML samples and PBSCs

Primary AML blasts (n=5) and PBSCs (n=2) were treated with increasing concentrations of erlotinib, ethacridine, and both drugs in combination for 48h. Viability was determined with Annexin V/PI staining and calculated relative to vehicle-treated controls, and synergy was calculated using the EOBA formula. Data depict average EOBA scores generated from a single experiment performed in triplicate.

Figure S3

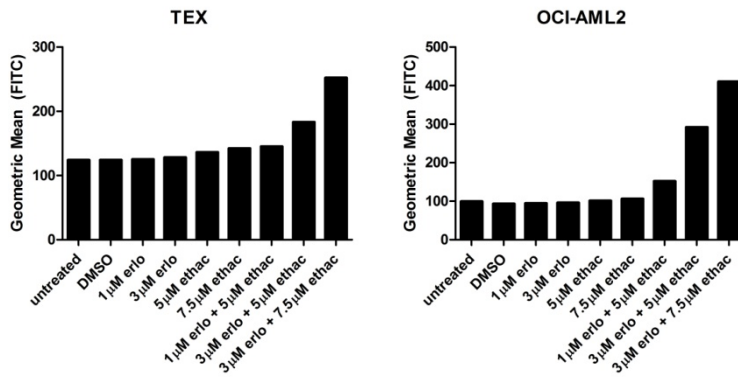


Figure S3: Autofluorescence evaluation of ethacridine-treated TEX and OCI-AML2 cells

TEX and OCI-AML2 cells were treated with ethacridine, erlotinib, or both drugs in combination for 24 hours. Autofluorescence of unstained cells in the FITC channel was assessed by flow cytometry.

Figure S4

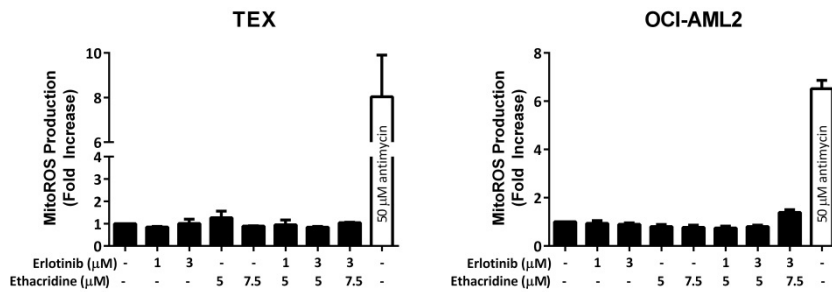


Figure S4: Mitochondrial ROS production in combination-treated TEX and OCI-AML2 cells

TEX and OCI-AML2 cells were combination-treated with erlotinib and ethacridine for 24h. Mitochondrial ROS was measured with MitoSOX-PE staining and dead cells were excluded by Annexin V-FITC staining. Fold increase in ROS production was calculated relative to the geometric mean fluorescence intensity of vehicle-treated cells. Antimycin A was included as a positive mitochondrial ROS control. Results depict mean fold increase in GMFI \pm SD from a representative experiment performed in triplicate. Data are representative of two independent experiments.

Figure S5

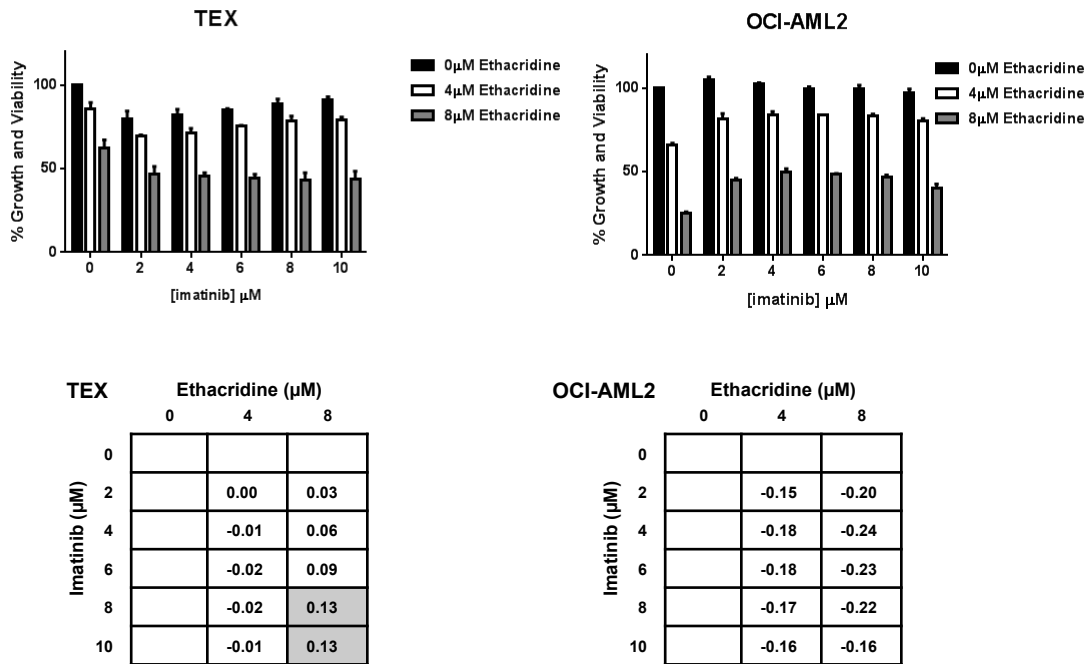


Figure S5: Imatinib does not synergize with ethacridine in TEX and OCI-AML2 cells

TEX and OCI-AML2 cells were treated with increasing concentrations of imatinib and ethacridine alone and in combination. Relative growth and viability following a 72h incubation was measured with the Alamar Blue assay. Synergy was calculated with the Eoba formula. Graphs depict mean percent growth and viability \pm SD from an experiment performed in triplicate. Tables depict mean Eoba scores from the same experiment. Data are representative of three independent experiments.