

Biological activity of Oxadiazole and Thiadiazole Derivatives

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Supplementary

Figure

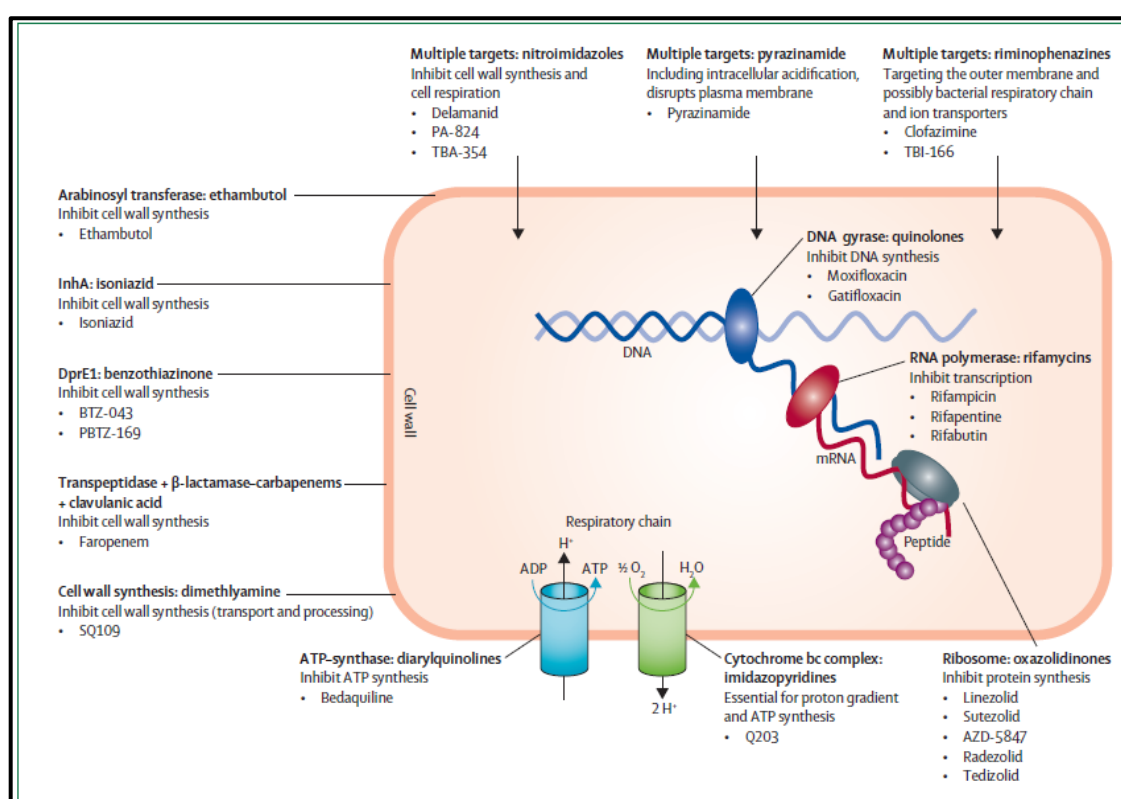
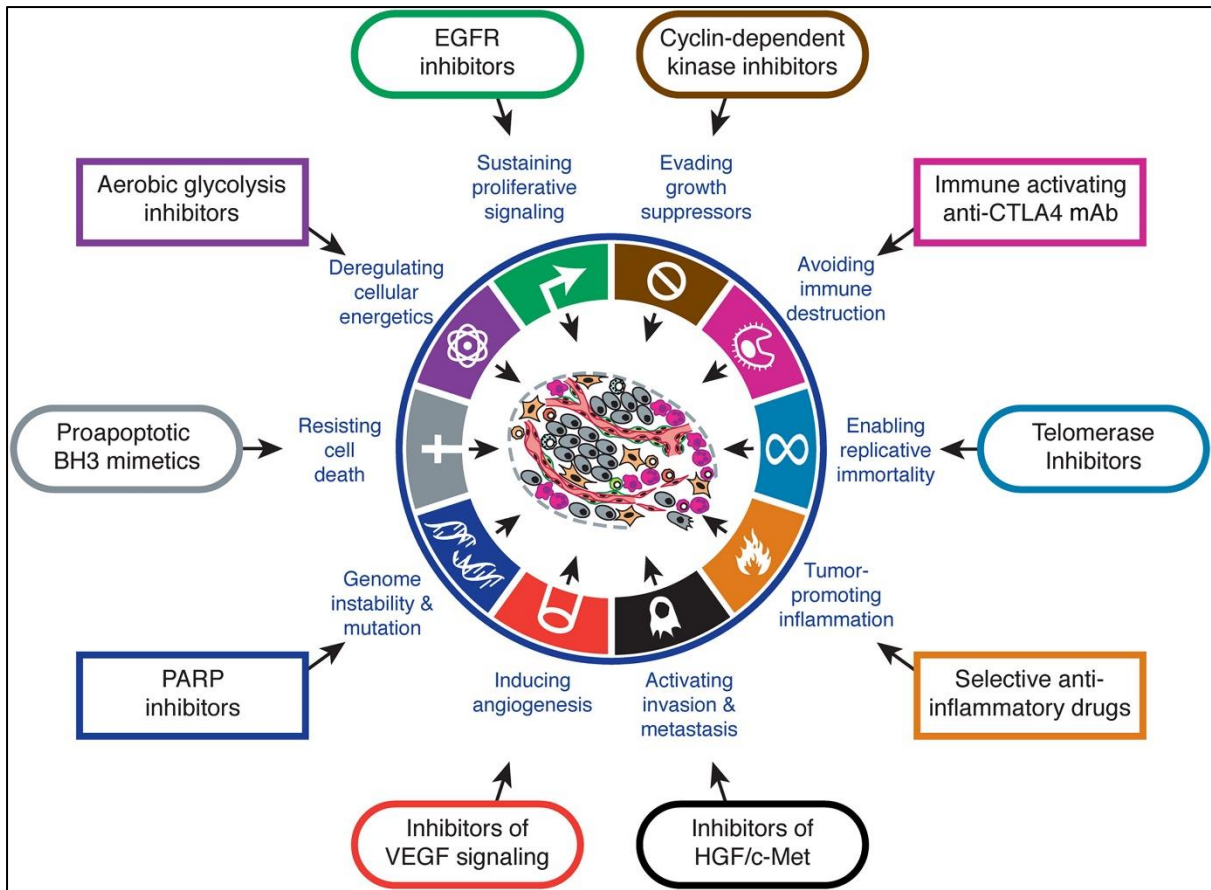


Figure S1 Hallmarks of TB (Reprinted with permission from Ref. (Zumla et al. 2014), copyright 2014 Elsevier)



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2 **Figure S2** Hallmarks of Cancer (Reprinted with permission from Ref. (Hanahan et al. 2011). copyright 2011  
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1 **Tables**

2 **Table S1** The observed activities against this strain of *Mtb*.

	Rifampicin	Isoniazid	Streptomycin	Kanamycin	Moxifloxacin
MIC $\mu\text{g.mL}^{-1}$	3.81	4.17	28.58	3.24	4.01

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4 **Table S2** Experimental observed  $IC_{50}$  values of the most active compounds **12a**, **12b**, **12c**.

Cell lines	MCF-7	A549	DU145	MDAMB 231
Compound no.	$IC_{50} \mu\text{M}$			
<b>12a</b>	0.12	0.41	1.15	1.08
<b>12b</b>	0.1	0.77	0.82	1.1
<b>12c</b>	0.11	0.23	0.92	0.43
Etoposide	2.11	3.08	1.97	1.91

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6 **Table S3** The cytotoxic activities recorded by MTT colorimetric assay

Compound number	$IC_{50}$ in $\mu\text{M}$			
	MCF-7	HCT-116	HeLa	CaCo2
<b>18a</b>	0.65	1.93	10.56	1.06
<b>18b</b>	2.41	3.55	13.96	3.33

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8 **Table S4** Cytotoxic data for compounds

Cell lines	A375	MCF7	ACHN
Compound Number	$IC_{50} (\mu\text{M})$		
<b>20a</b>	1.22	0.23	0.11
<b>20b</b>	2.98	0.7	1.89
<b>20c</b>	0.37	1.47	0.33
Doxorubicin	5.51	2.02	0.79

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1 **Table S5** Amongst the compounds tested against leukemia cell lines

Antiproliferative effect on different Leukemia cell line by <b>21a</b> and <b>21b</b> compounds			
Cell lines	Subtype	Compound <b>21a</b>	Compound <b>21b</b>
		<i>IC</i> <sub>50</sub> (μM)	<i>IC</i> <sub>50</sub> (μM)
OCL-AML3	AML	62	66
IMS-M2	AML	18.4	100
OCL-AML2	AML	37	85
MV4-11	AML	16	38
Kasumi-1	AML	10.3	56
U937	AML	25	>100
NB4	APL	12	49
HL-60	APL	30	100
Karpas 299	ALCL	36	25

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3 **Table S6** *IC*<sub>50</sub> values against various tumor cell lines

Cell line	CCRF-CEM	HCT-15	PC 3	UACC 257	MCF-10
Compound	<i>IC</i> <sub>50</sub> μM				
<b>33a</b>	10.99	9.87	4.56	12.67	461.85
<b>33b</b>	9.66	8.59	9.92	9.2	474.44
<b>33c</b>	6.99	5.28	6.99	7.41	352.35
Doxorubicin	6.78	5.17	4.67	7.34	377

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