

Supplementary File

1,3,4-Oxadiazole Derivatives: Targeting Multiple Bacterial Pathways

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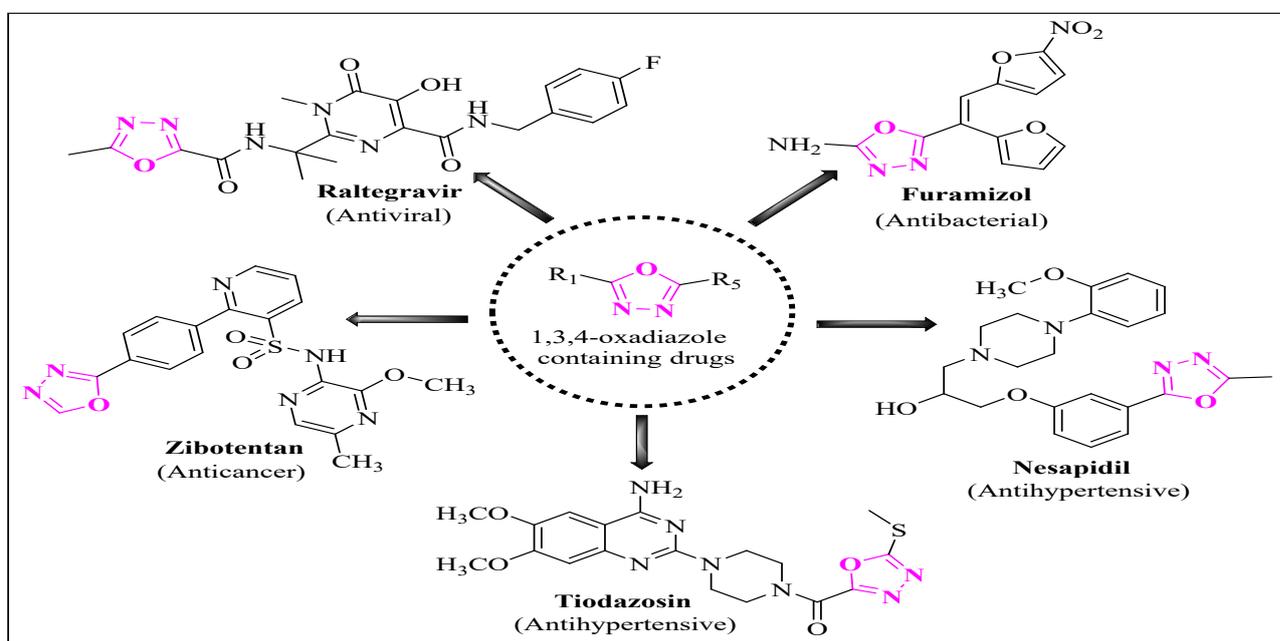


Fig. S1 Clinically used 1,3,4-oxadiazole containing drugs.

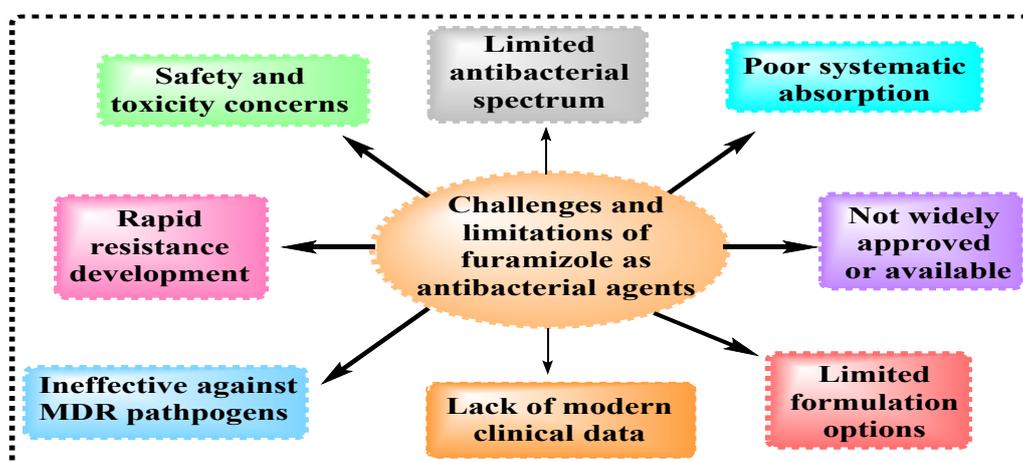


Fig. S2 Challenges and limitations of Furamizole as an antibacterial agent.

Abbreviations used

Abbreviations	Full form	Abbreviations	Full form
AMR	Antimicrobial resistance	DHFS	Dihydrofolate synthetase
MDR	Multi-drug resistant	BC	Biotin carboxylase
DHFR	Dihydrofolate reductase	CoA	Coenzyme A
GlmS	Glucosamine-6-phosphate synthase	ATP	Adenosine triphosphate
FabH	β -ketoacyl-ACP synthase III	AMP	Adenosine monophosphate
DPrE1	Decaprenylphosphoryl-D-ribose 2'-epimerase	Ppi	Pyrophosphate
LpxC	UDP-3-O-(R-3-hydroxymyristoyl)-N-acetylglucosamine deacetylase	HMG-CoA	3-Hydroxy-3-methylglutaryl-coenzyme A
LtaS	Lipoteichoic acid synthase	TCA cycle	Tricarboxylic acid cycle
Gbp-C	Glucan-binding protein C	NAM	N-Acetylmuramic acid
DLST	Dihydrolipoamide S-succinyl transferase	NAG	N-Acetylglucosamine
ESBL	Extended-spectrum β -lactamases	UDP	Uridine diphosphate
GST	Glutathione S transferase	L-Ala	L-Alanine
MRSA	Methicillin-resistant <i>Staphylococcus aureus</i>	D-Ala	D-Alanine
PanC	Pantothenate synthetase	D-Glu	D-Glutamic acid
InhA	Enoyl ACP reductase	L-Lys	L-Lysine
CrtM	Dehydrosqualene synthase	GlmM	Phosphoglucosamine mutase
TyrRS	Tyrosyl-tRNA synthetase	GlmU	N-Acetylglucosamine-1-phosphate uridyltransferase
ESP	Enterococcal surface protein	MurA	UDP-N-acetylglucosamine enolpyruvyl transferase
Xoo	<i>Xanthomonas oryzae</i> pv. <i>Oryzae</i>	MurB	UDP-N-acetylenolpyruvylglucosamine reductase
Xac	<i>Xanthomonas axonopodis</i> pv. <i>Citri</i>	MurC	UDP-N-acetylmuramate-L-alanine ligase
MIC	Minimum Inhibitory Concentration	MurD	UDP-N-acetylmuramoyl-L-alanine-D-glutamate ligase
ZOI	Zone of Inhibition	MurE	UDP-N-acetylmuramoyl-L-alanine-D-glutamate-meso-diaminopimelate ligase
MurF	UDP-N-acetylmuramoyl-pentapeptide ligase	MraY	Phospho-N-acetylmuramoyl-pentapeptide transferase
MurG	N-Acetylglucosaminyltransferase	MurJ-Flippase	Lipid I-Undecaprenyl-P-P-MurNAc-pentapeptide
AA	Amino acid	tRNA	Transfer RNA
AaRS	Aminoacyl-tRNA synthetase	PT	Peptidyl transferase
PDF	Peptide deformylase	MAP	Methionine aminopeptidase
f-Met	Formyl-methionine	30S/50S	Ribosomal subunits (small/large)
A-site	Aminoacyl site	P-site	Peptidyl site
E-site	Exit site		

