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## Erratum

In the article "Stimulation of N-Linked Glycosylation and Lipid-Linked Oligosaccharide Synthesis by Stress Responses in Metazoan Cells" by Mark A. Lehrman, which appeared in Volume 41, Issue 2 (2006) of Critical Reviews in Biochemistry and Molecular Biology, Table 2 contains several errors. The correct Table 2 appears below. The publisher apologizes for this error, and directs readers to www.crbmb.com, where an electronic version of the article is available, with the correct table in place.

TABLE 2 Reagents used to study N-linked glycosylation and cellular stress responses

Reagent	Relevant Target or Reaction	Effect on N-linked glycosylation pathway	Causes ER stress? <sup>a</sup>	Causes cytoplasmic stress? <sup>a</sup>
tunicamycin	inhibitor of UDP- GlcNAc:Dol-P GlcNAc-1-P transferase (ALG7)	Direct: blocks synthesis of lipid- linked oligosaccharide	Yes	No
glucosamine	multiple effects	Indirect: Inhibits multiple steps in LLO synthesis	Yes	(No)
castanospermine; deoxynorjirimycin	inhibitors of ER glucosidases I and II	Direct: prevents glucosidase processing of glycoproteins	Yes	No
deoxymannojirimycin kifunensine	inhibitor of ER mannosidase I and Golgi mannosidase I inhibitor of ER mannosidase I	Direct: prevents mannosidase processing of glycoproteins	(Yes)	(No)
dithiothreitol	disulfide reductant	Indirect: via ER stress response pathways	Yes	No
thapsigargin	depletes ER Ca <sup>2+</sup> by blocking the ER Ca <sup>2+</sup> -ATPase			
azetidine-2-carboxylic acid	inhibits prolyl isomerization	Indirect: via ER stress response and	Yes	Yes
geldanamycin	inhibits HSP-90 and GRP-94	cytoplasmic stress response pathways		
arsenite	inhibits enzymes containing vicinal thiols	Indirect: via cytoplasmic stress response pathways	No	Yes
diamide; disulfiram metformin	sulfhydryl oxidant stimulation of mannose transport stimulates AMP- activated protein	Indirect: increased production of LLO biosynthesis substrates unknown	No	No
5-aminoimidazole-4- carboxamide riboside (converted intracellulary to ribotide)	kinase stimulates glycogen phosphorylase	Indirect: increased production of LLO biosynthesis substrates		

<sup>&</sup>lt;sup>a</sup> responses in parentheses indicated anticipated result

