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Series GSE19213
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Status Public on Dec 30, 2010
 Title Expression data from oxidant treated yeast
 Platform organisms [Schizosaccharomyces pombe](#); [Saccharomyces cerevisiae](#)
 Sample organism [Saccharomyces cerevisiae](#)
 Experiment type Expression profiling by array
 Summary Yeast transcription factor Yap1 mediates adaptive response against H₂O₂ and the cystein thiol reactive Michael acceptor, N-ethylmaleimid (NEM) and acrolein. The response against H₂O₂ was found to be distinct from that against NEM and acrolein.
 We used microarray experiment to identify two subsets of Yap1-dependent genes that correspond to these two adaptive responses.

Overall design Wild-type yeast BY4741 cells were grown in early exponential phase and treated with H₂O₂, NEM, or acrolein. RNAs were then extracted and hybridized on Affymetrix microarrays.

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 Citation(s) Ouyang X, Tran QT, Goodwin S, Wible RS et al. Yap1 activation by H₂O₂ or thiol-reactive chemicals elicits distinct adaptive gene responses. *Free Radic Biol Med* 2011 Jan 1;50(1):1-13. PMID: [20971184](#)

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Platforms (1) [GPL2529](#) [Yeast_2] Affymetrix Yeast Genome 2.0 Array

Samples (16) [GSM476081](#) wild-type control, replication 1
[Less...](#) [GSM476082](#) wild-type control, replication 2
[GSM476083](#) wild-type control, replication 3
[GSM476084](#) wild-type control, replication 4
[GSM476085](#) wild-type acrolein treated, replication 1

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	GSM476086	wild-type acrolein treated, replication 2	
	GSM476087	wild-type acrolein treated, replication 3	
	GSM476088	wild-type acrolein treated, replication 4	
	GSM476089	wild-type H2O2 treated, replication 1	
	GSM476090	wild-type H2O2 treated, replication 2	
	GSM476091	wild-type H2O2 treated, replication 3	
	GSM476092	wild-type H2O2 treated, replication 4	
	GSM476093	wild-type NEM treated, replication 1	
	GSM476094	wild-type NEM treated, replication 2	
	GSM476095	wild-type NEM treated, replication 3	
	GSM476096	wild-type NEM treated, replication 4	

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BioProject [PRJNA120829](#)

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Supplementary file	Size	Download	File type/resource
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Raw data provided as supplementary file			
Processed data included within Sample table			