

Modeling the role of microRNA-449a in  
the regulation of the G2/M cell cycle  
checkpoint in prostate LNCaP cells  
under ionizing radiation  
*S1 Table*

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## Model elements

Table 1: Model elements / corresponding molecules or cytotoxic agent

<b>Nodes</b>	<b>Description</b>
IR	Ionizing radiation
ATM	ATM serine/threonine kinase
ATR	ATR serine/threonine kinase
miR-449a	MicroRNA 449a
Sirt-1	Sirtuin 1
p53-MAIN	Tumor suppressor p53 protein
Mdm2	E3 ubiquitin protein ligase homolog protein
p53-Arrest	Tumor suppressor p53 protein (Ser-15 and Ser-20)
p53-Killer	Tumor suppressor p53 protein (Ser-46)
p53-INP1	Tumor protein p53 inducible nuclear protein 1
Wip1	Protein Phosphatase 1D
p21	cyclin-dependent kinase inhibitor 1A
14-3-3s	14-3-3 Sigma
c-Myc	Myc proto-oncogene protein
E2F1	E2F transcription factor 1
RB	Retinoblastoma 1 protein
Cdc25ABC	Cell division cycle 25 family (A/B/C)
Cdc2-CycB	Cell division cycle protein 2 homolog/ Cyclin B complex