

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

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Bibliographical references of the interactions among the molecules of the model

IR → miR-449a [1, 2]
IR → ATR [3]
IR → ATM [3]
p21 → G2/M-Arrest [4]
p53-Main → p53-Arrest [5]
p53-Main → p53-Killer [6]
p53-Main → Mdm2 [7]
p53-Main → G2/M-Arrest [8]
14-3-3s → G2/M-Arrest [9]
Cdc25ABC → E2F1 [10]
Myc → Cdc25ABC [11]
Myc → E2F1 [12]
E2F1 → Myc [12]
E2F1 → Sirt-1 [13]
E2F1 → p53-Main [14]
E2F1 → Proliferation [15]
ATM → E2F1 [16]
ATM → p53 [17]
ATR → E2F1 [16]
ATR → p53 [17]
E2F1 → ATM [18]
Cdc25ABC → Cdc2-CycB [19]
Cdc2-CycB → Proliferation [20]
p53-Killer → 14-3-3 [21]
p53-Killer → p21 [22, 8]
p53-Killer → G2/M-Apoptosis [23]
p53-Arrest → 14-3-3 [21]
p53-Arrest → p21 [22, 8]
p53-Arrest → Wip1 [24]
p53-Arrest → p53INP1 [25]
p53INP1 ⊣ p53-Arrest [25]
p21 ⊣ Cdc2-CycB [26]
p53-Main ⊣ Proliferation [27]
p53-Arrest ⊣ p53-killer [28]
p53-Killer ⊣ p53-Arrest [28]
MDM2 ⊣ RB [29]
MDM2 ⊣ P53-Main [7]
MDM2 ⊣ [30]
Wip1 ⊣ p53-Killer [31]
Wip1 ⊣ mdm2 [31]
Wip1 ⊣ ATM [32]
ATM ⊣ Cdc25ABC [33]
ATM ⊣ Mdm2 [34]

ATR \rightarrow Mdm2 [35]
ATR \rightarrow Cdc25ABC [33]
Sirt-1 \rightarrow p53-Arrest [36]
Sirt-1 \rightarrow p53-Killer [36]
Sirt-1 \rightarrow E2F1 [13]
Sirt-1 \rightarrow RB [37]
miR-449a \rightarrow Myc [1, 2]
c-Myc \rightarrow p21 [38]
miR-449a \rightarrow Cdc25ABC [39]
Cdc25ABC \rightarrow Rb [40]
miR-449a \rightarrow Sirt-1 [41]
sirt-1 \rightarrow P53 [42]
14-3-3 \rightarrow Cdc2-CycB [43]
Rb \rightarrow E2F1 [44]
Rb \rightarrow c-Myc [45]
Rb \rightarrow mdm2 [46]
miR-449a \rightarrow E2F1 [39]

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