Author's response to reviews

Title: Radiosensitization in prostate cancer: mechanisms and targets

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Author's response to reviews: see over
Point by point response to reviewers’ comments

Reviewer #1
No issues

Reviewer #2
Page 4 more pronounced in cells that are cannot effectively repair DNA damage (18-20). “are” should removed
This was removed.

Page 6
proteins Rad9, Rad1, and Hus1 (34). This complex is thought to be more involved in “space” should be placed between “and” and “Hus1”
These changes were made.

and Nbs1, and it is thought to be more specific to double-strand DNA damage and “space” should be placed between “and” and “Nbs1”
These changes were made.

homologous repair (35, 37). These complexes dock on fractured DNA or near the site of “dock” should be altered to the passive voice.
This change was made.

Page 7 cycle transitions until the integrity of the DNA is ensured assured(42-45). Cells respond “assured” should be removed.
This change was made.

Page 8 which after mitosis is the next most sensitive phase in the cell cycle. Multiple pathways “after mitosis” should be altered to “post mitosis”.
This change was made.

phosphorylation. The ATM/CDC25A pathway is also important here because cdc25A is “space” should be placed placed between “because” and “cdc25A”.
These changes were made.

Page 11 p53 expression and function in tumor cell has an important role in the cellular response To “space” should be placed.
This change was made.

DNA damaging agents, facilitating cell cycle arrest, or death (87). While overexpression “damaging agents” should be altered to “damage”
This change was made.

Furthermore, with combination therapy, the number of apoptotic cells increased 7-foldin “space” should be placed.
This change was made.
Page 12 through G1 checkpoint for repair they pass directly to mitosis with DNA lesions, Causing “comma” should be placed between “repair” and “they”.

_This change was made._

essential for DNA repair processes (93) but when it is hyperactivated causes NAD and “when it is hyperactivated” should be altered to “hyperactivation of PARP1”.

_This change was made._

ATP depletions, leading in µ-calpain activation, a unique caspase-independent “comma” should be replaced to “and”.

_These changes were made._

Page 17 cancer development, progression, and resistance to conventional therapy. One “space” should be placed.

_This change was made._

The manuscript was edited for spelling/grammar.

_Figure 1 and 2 were converted from Powerpoint figures to JPEG figure with higher resolution._