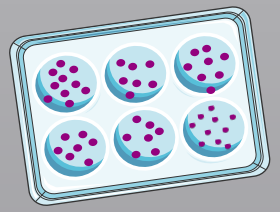
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# Pulsed low-dose rate radiotherapy has an improved therapeutic effect on abdominal and pelvic malignancies

Key words: PLDR; HRS/IRR; abdominal and pelvic cancers; T1/2

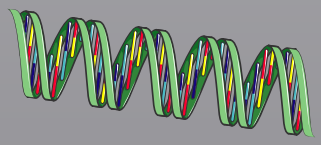
# Rearch Summary

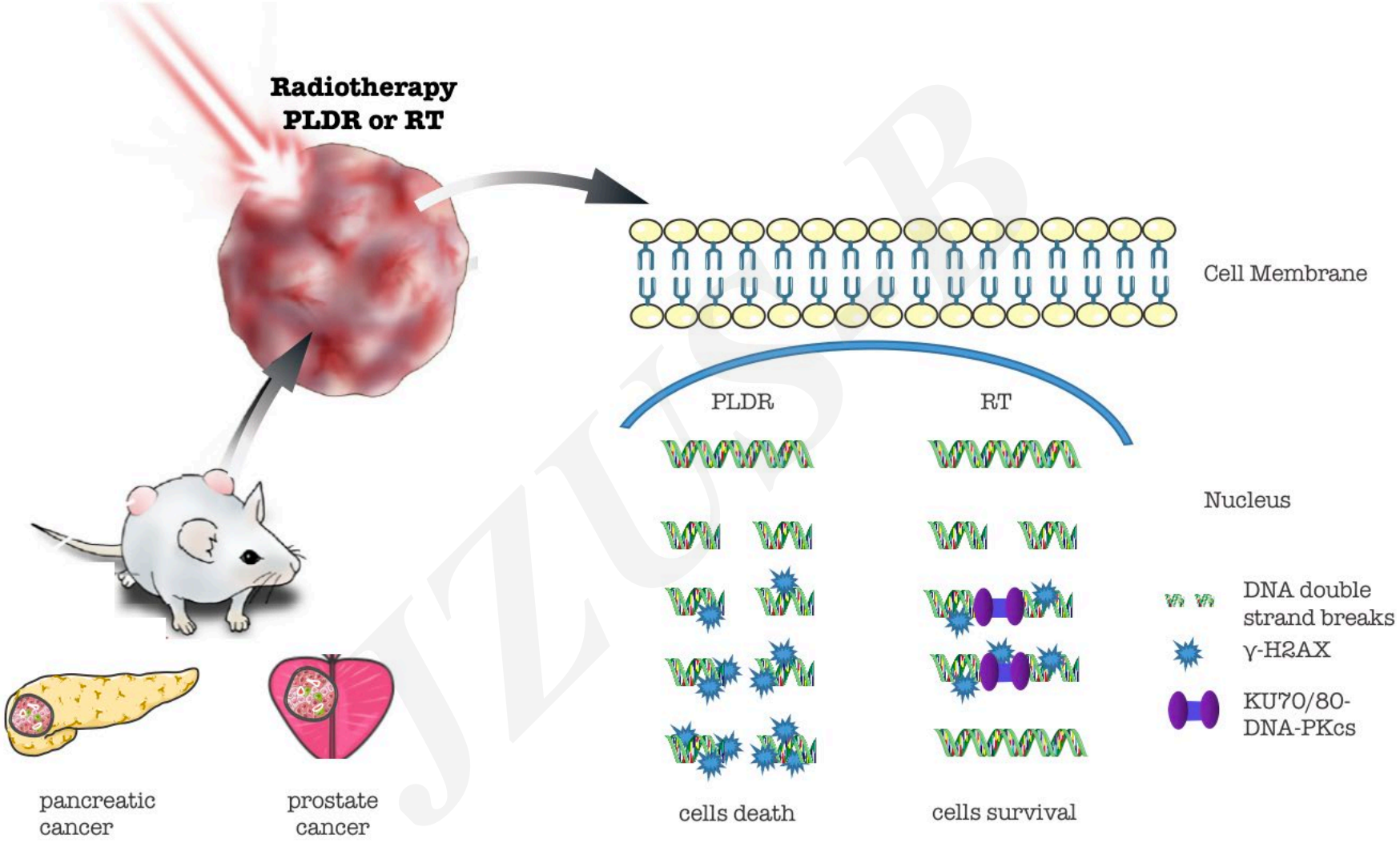
This study mainly focused on exploring the best personalized pulsed low dose rate radiotherapy (PLDR) models of abdominal and pelvic malignancies in order to achieve individualized radiotherapy, and summarized the key roles we played in the following aspects:





- Construction of PLDR models in *vitro*;
- Compariation of PLDR and RT models on tumor growth in *vivo*;
- Mechanisms of differential antitumor efficacy between PLDR and RT.




Radiotherapy
PLDR or RT
pancreatic cancer
prostate cancer
Cell Membrane
PLDR
RT
Nucleus
DNA double strand breaks
γ-H2AX
KU70/80-DNA-PKcs
cells death
cells survival

# Innovation points

- For the first time, we innovatively studied the optimal PLDR model for different types of tumors

- The radiation resistance of tumor and radiation damage of normal tissue in reradiotherapy can be solved simultaneously