

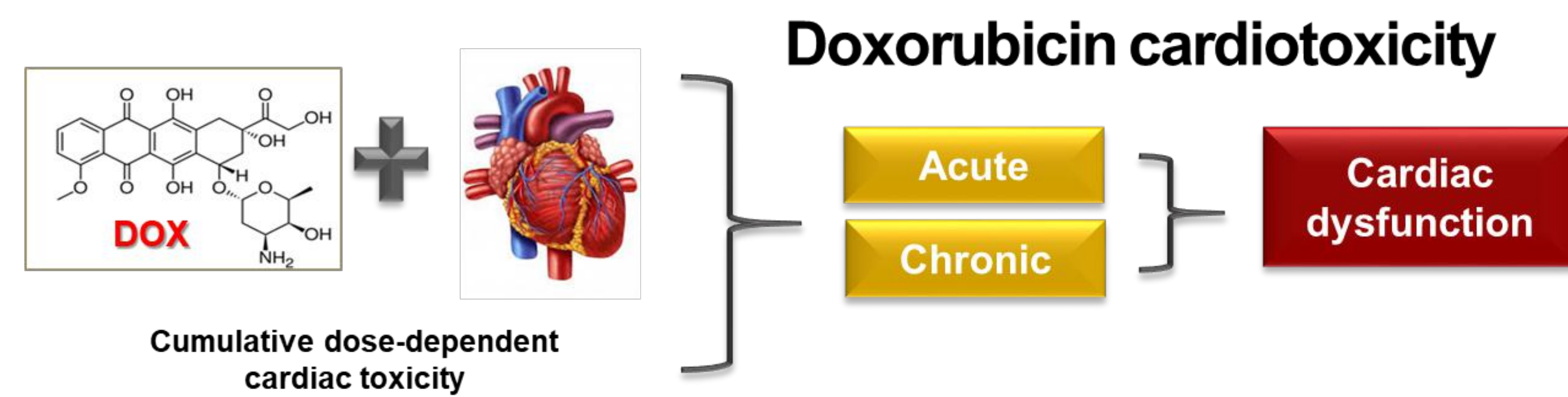
# Inositol-requiring enzyme-1 (IRE1) blockade affects triple-negative breast cancer chemotherapy sensitivity and prevents chemotherapy-related cardiotoxicity

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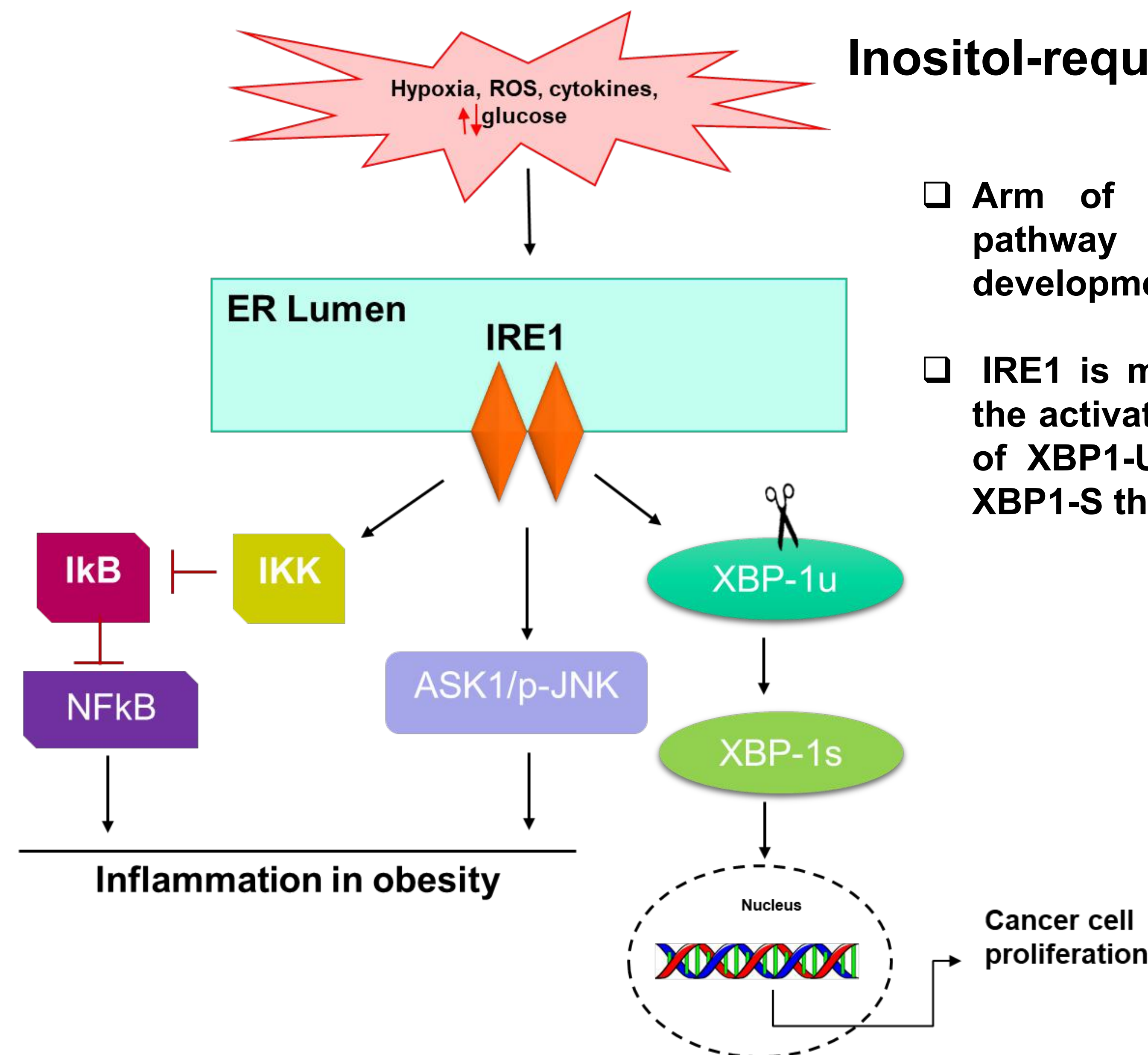
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## Background

### Triple Negative Breast Cancer (TNBC)



### Inositol-requiring Enzyme-1 (IRE1) Signaling



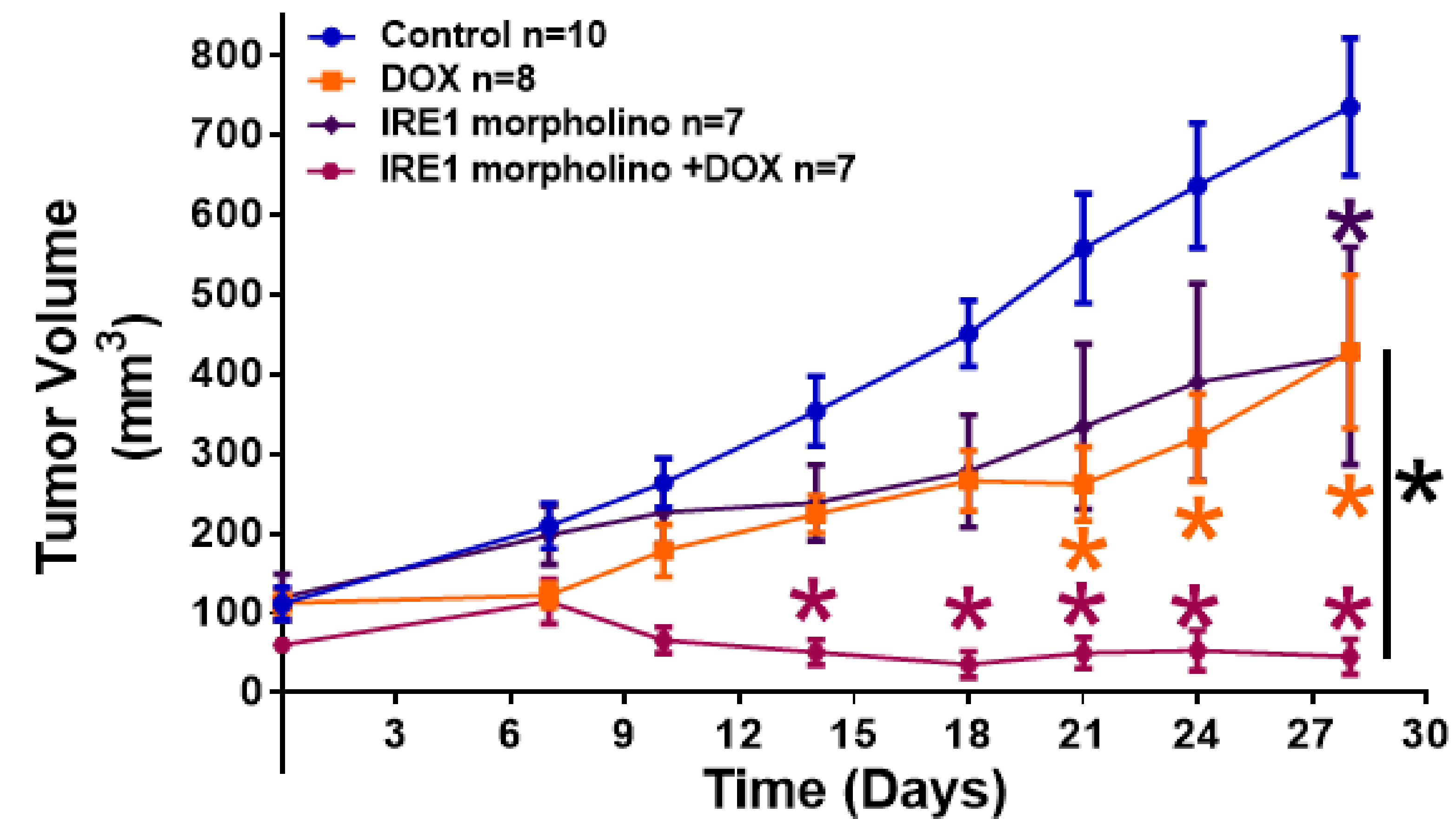
- Arm of the unfolded protein response (UPR) pathway that plays a crucial role in tumor development.
- IRE1 is mostly known for endo nucleus activities, the activation results in the unconventional splicing of XBP1-U to form the active transcription factor XBP1-S that lead to cancer cell proliferation.

### Aim of study

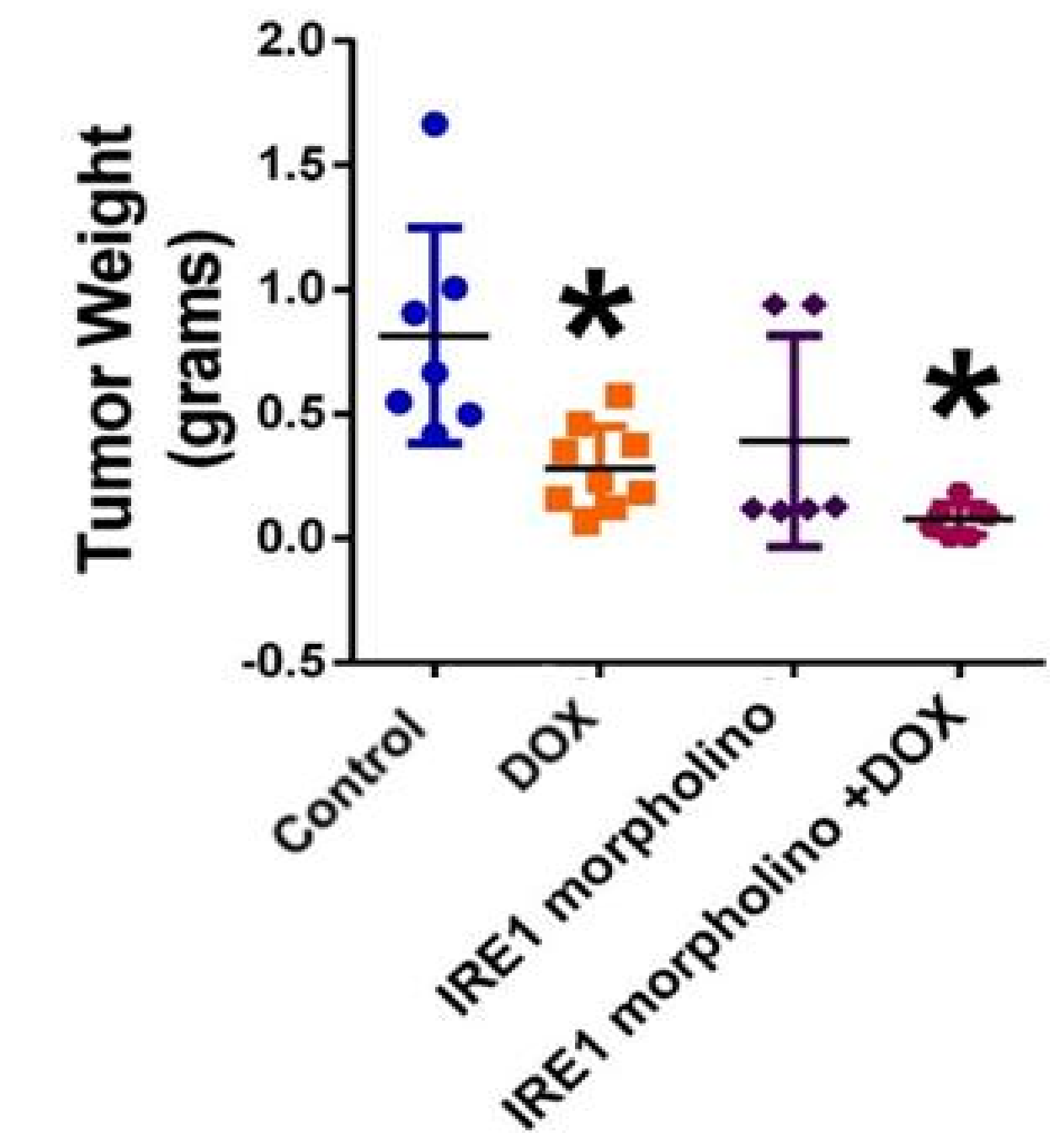
Determine the role of IRE1 targeting on mediating TNBC chemotherapy response and preventing therapy-related cardiac toxicity.

## Results

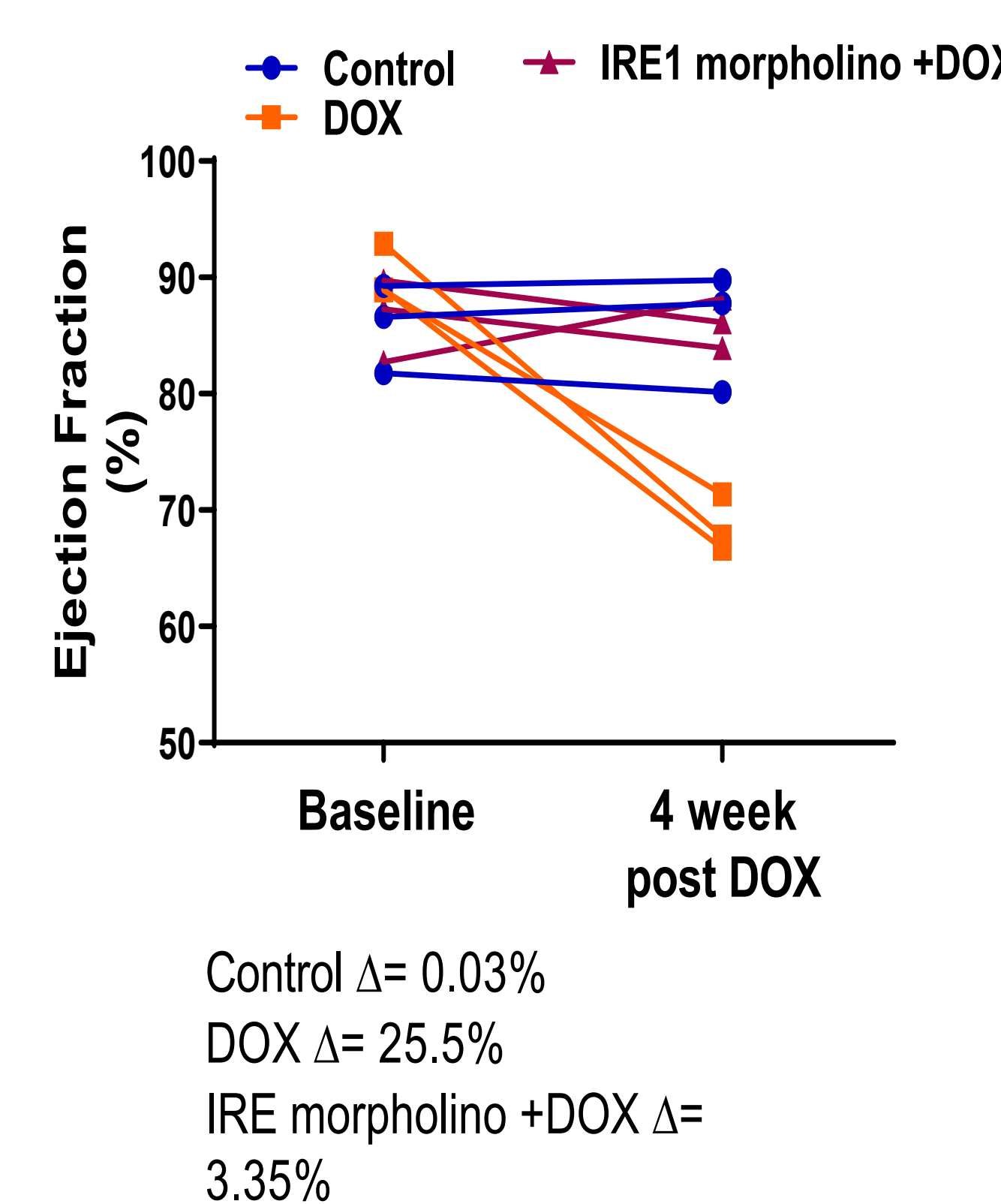
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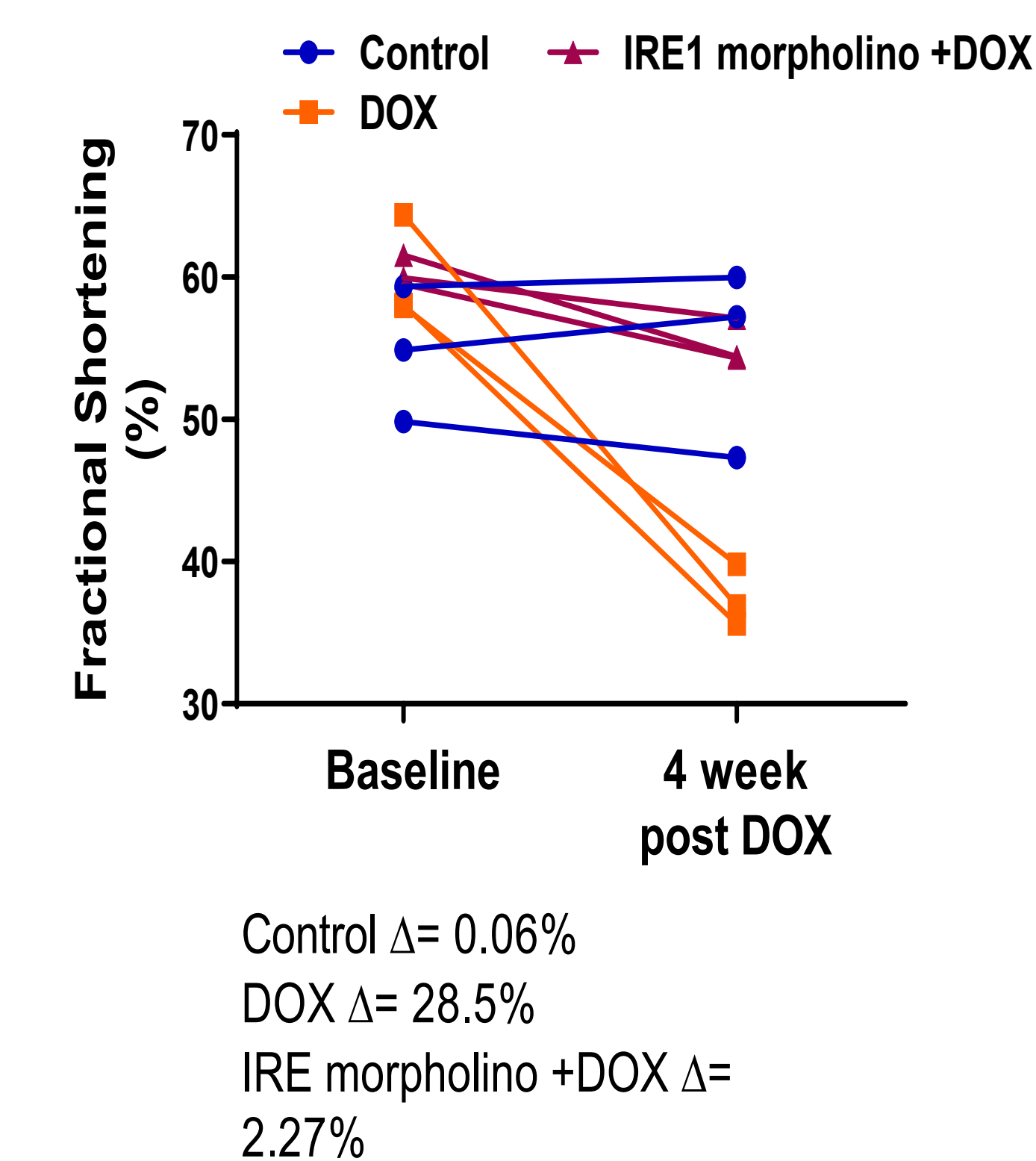
B



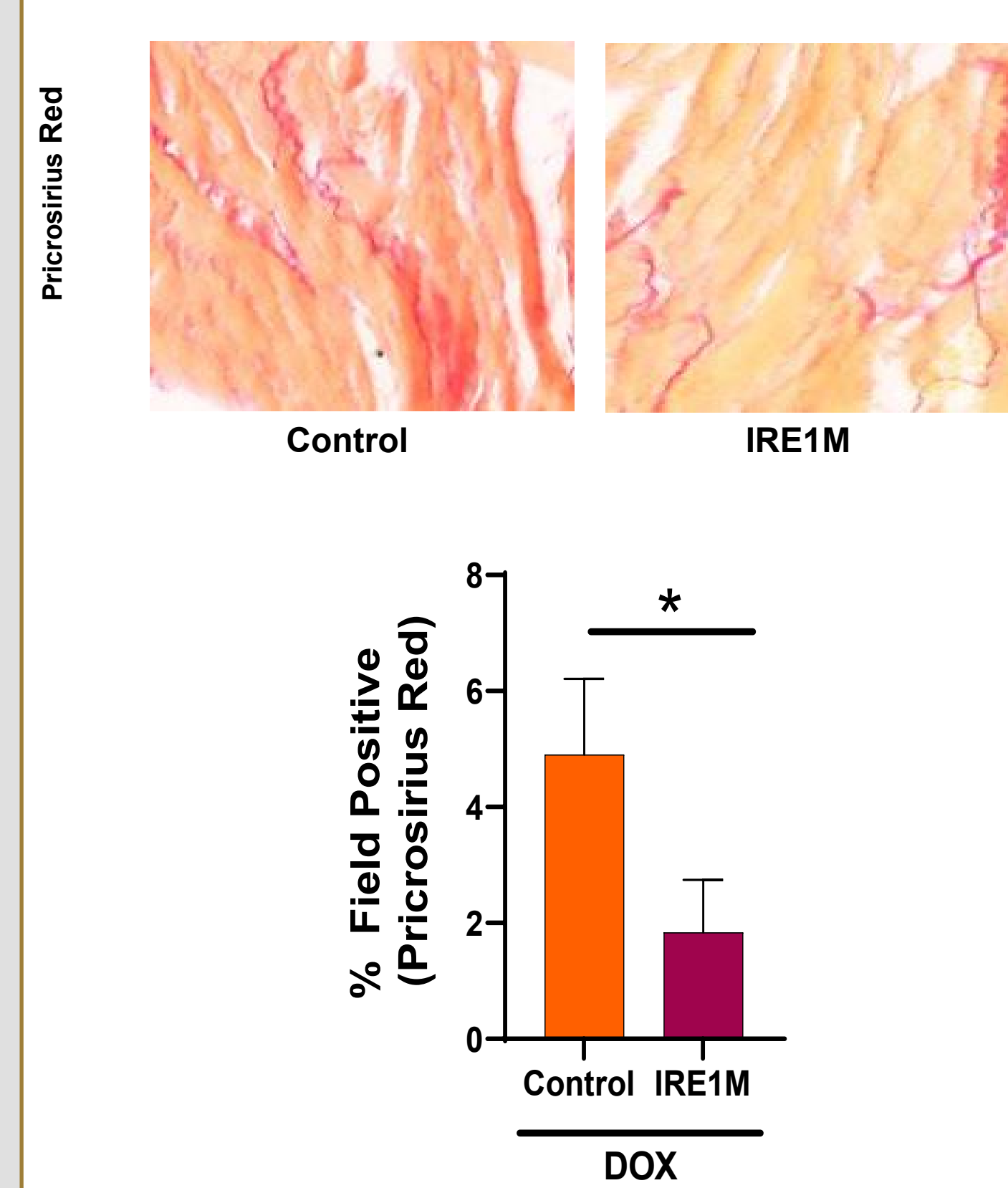
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B



A



B

