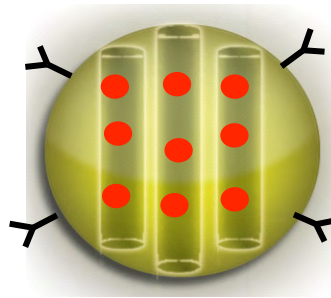


Boron containing nanoparticles and animal model

Nanotechnology

Cancer Targeting
Boron containing
MSN nanoparticles



● B10 compound
Y Targeting

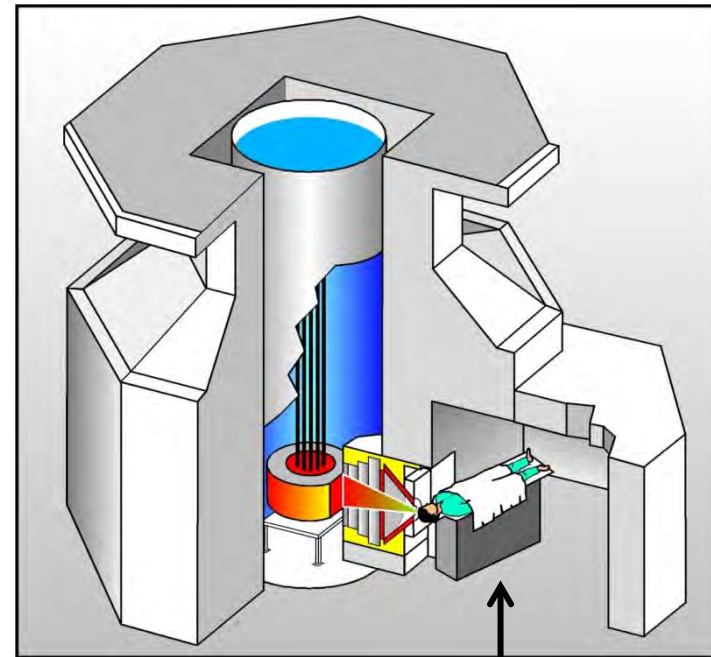


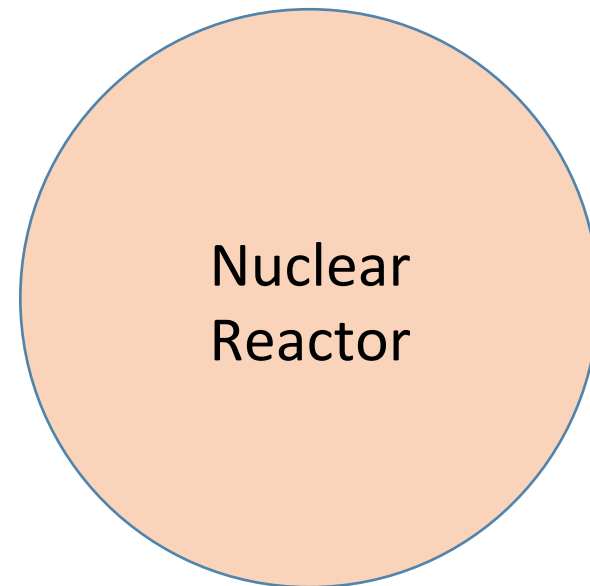
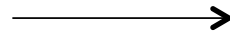
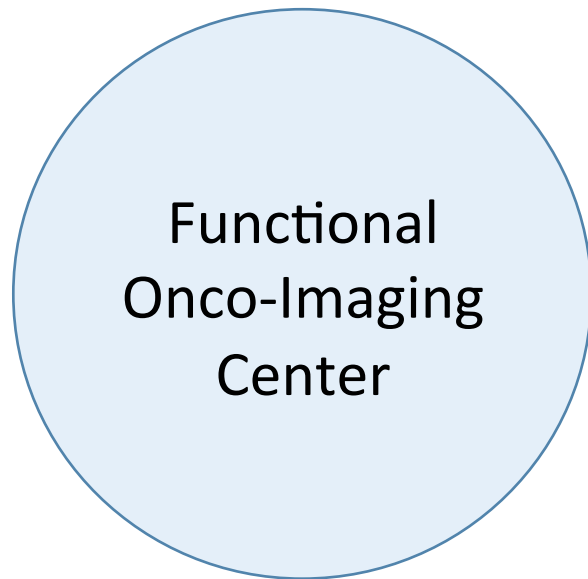
Boron accumulation
Tumor vs Normal

2:1	Currently
>20:1	Nanoparticle BNCT

Animal model

Chicken egg tumor model as
an animal model for BNCT



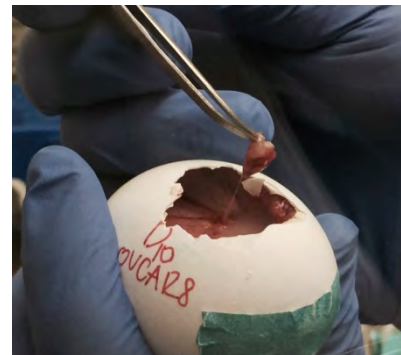
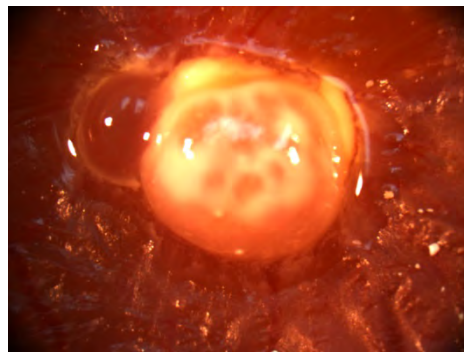
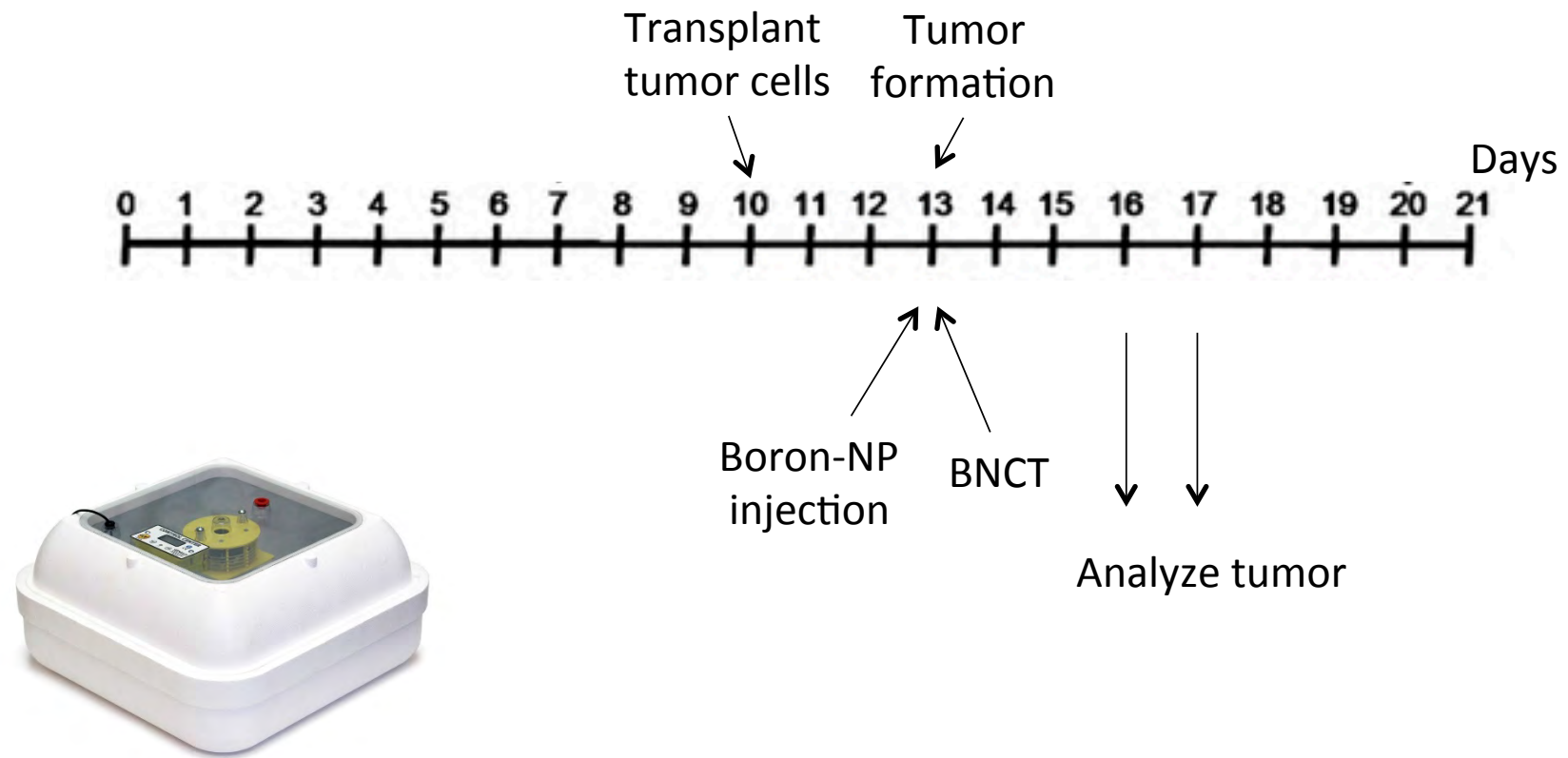


Chicken eggs incubated.
Tumor formed in the eggs.
10B-NPs injected.

Gultekin Gulsen

Chicken eggs irradiated.
Further incubation.
Tumor cut out and analyzed.

AJ Shaka



Boron containing nanoparticles

1. We will use mesoporous silica nanoparticles
2. Load Boron compounds into the nanoparticle
3. Adding tumor targeting will generate NP2.
4. Both NP1 and NP2 will be used.

