Dr Wilbert Zwart – Netherlands Cancer Institute

Epigenetics in hormone-driven cancers from trials to models and back again

Hormones and cancer

* Prostate cancer – 1 man in 9 will be diagnosed w prostate cancer
* Most common most diagnosed cancer in men
* Androgen receptor pathway – important pathway in prostate cancer
* Block androgen receptors on multiple scales – enzalutamide

NOT ALL Patients respond to hormonal therapy

FOXA1 – TF, opens chromatin to enable AR to bind

Adjusted p < 0.5

Shorter range interactions on HI-c plots – When you see one of those triangle plots with black boxes, if there are more black boxes further away from the horizontal line, the interaction are long range, idk look into Hi-C tho.

Akita – predict 3d protein structure from linear DNA sequence, machine learning approach