DECIPHER
PROSTATE **BIOPSY**

Multiple cancer pathways drive metastatic potential

Whole Transcriptome Assay → 7 Cancer Pathways → 22 Genes → Metastatic Potential → **Decipher Prostate**

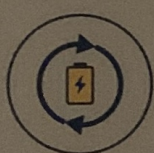Artificial Intelligence & Machine Learning
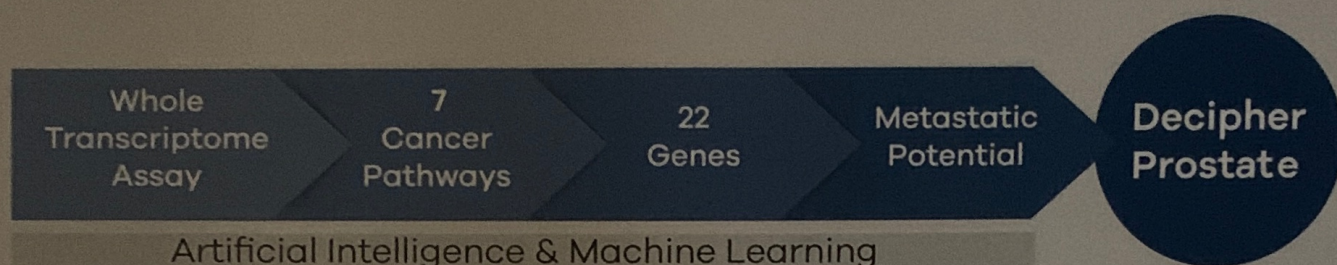
Decipher® is a **22-gene signature** across **7 cancer pathways**
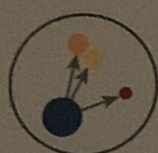
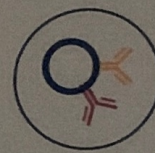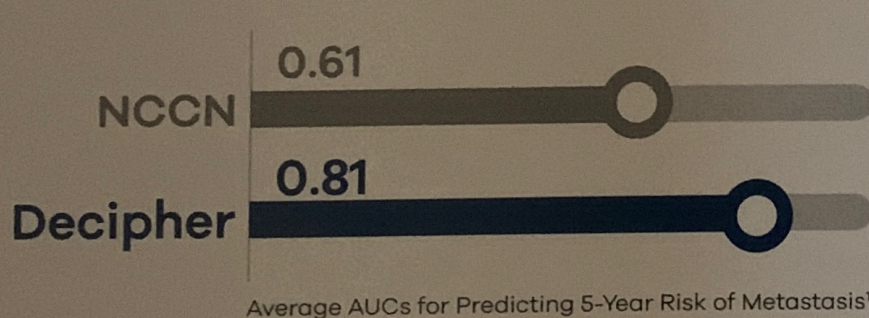| Invasion & Metastasis | Androgen Signaling | Metabolism | Angiogenesis | Proliferation & Cell Death | Growth & Differentiation | Immune Activity & Response |
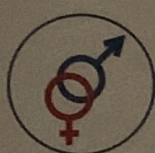
Superior accuracy, independent of clinical features

NCCN **0.61**

Decipher **0.81**

Average AUCs for Predicting 5-Year Risk of Metastasis[1]

Independent of Gleason Score, PSA & nomograms

Not impacted by:
- Re-graded Gleason score
- Changes in PSA due to:
  - Prostatitis
  - BPH
  - Physical activity

Decipher is **more accurate** than clinical features in predicting metastasis

[1] Klein, Urology (2016), doi: 10.1016/j.urology.2016.01.012; Nguyen, PCAN (2017), doi:10.1038/pcan.2016.58; Nguyen, Eur. Urol. (2017), doi:10.1016/j.eururo.2017.05.009; Berlin, IJROBP (2018), doi: 10.1016/j.ijrobp.2018.08.030

AUC = Area Under the Curve