S1-06
The miR-424/503 cluster is a breast cancer tumor suppressor with a role in chemoresistance

Dr. Silva: Nothing to Disclose.

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S1-06 THE MIR-424/503 CLUSTER IS A BREAST CANCER TUMOR SUPPRESSOR WITH A ROLE IN CHEMORESISTANCE

Speaker: Jose Silva

Slide 3 / 15

Slide 4 / 15
The miR-424/503 Cluster is deleted in breast cancers... and associated with poor prognosis and survival.
Primary breast cancer with deletion in the miR-424/503 locus presents high levels of its targets.

mIR-424/503-null female mice develop breast cancer promoted by pregnancy.
Slide 9 / 15

Loss of miR-424/503 generates aggressive breast cancer-I

Reduced Latency

Faster Growth

Slide 10 / 15

Loss of miR-424/503 generates aggressive breast cancer-II

Higher Proliferation Rate
BCL2 and IGF1R inhibitors restore the response to chemotherapy in miR-424/503 deficient breast cancer cells.

Survival of breast cancer patients treated with chemotherapy is strongly influenced by the loss of the miR-424/503 locus.
The miR-424/503 Cluster is a Breast Cancer Tumor Suppressor with a Role in Chemoresistance

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> Mount Sinai Hospital

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Our lab has 2 postdoctoral position currently open, interested contact Jose Silva

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