

Down-Regulation of miRNAs by Mutated FOXP2

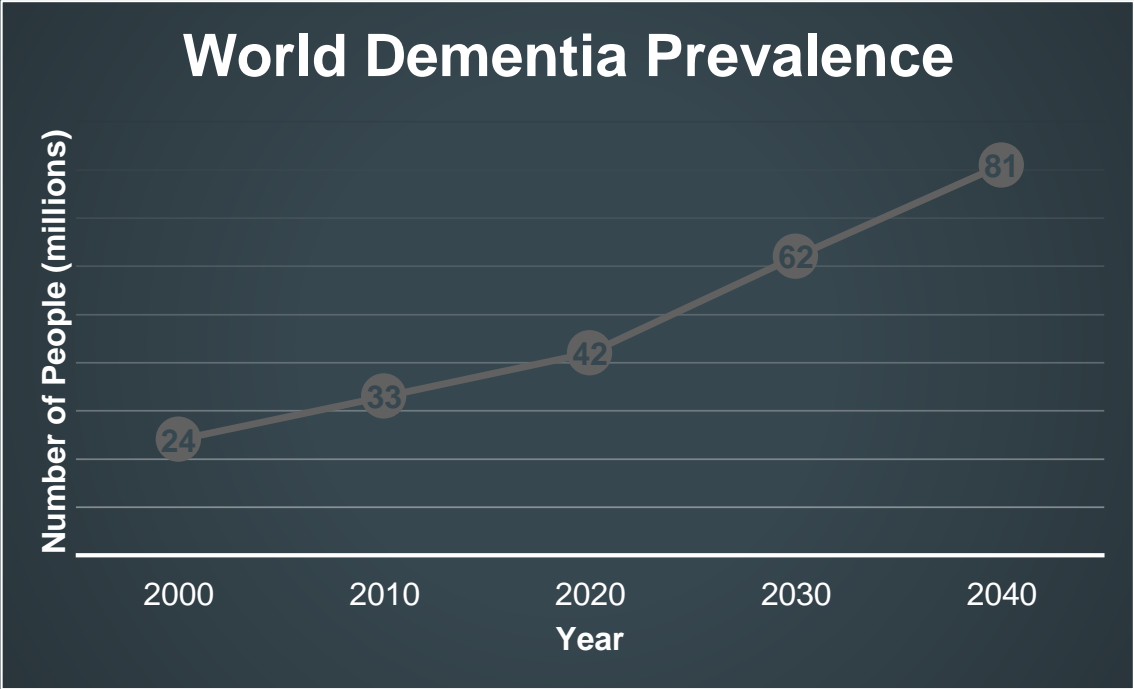
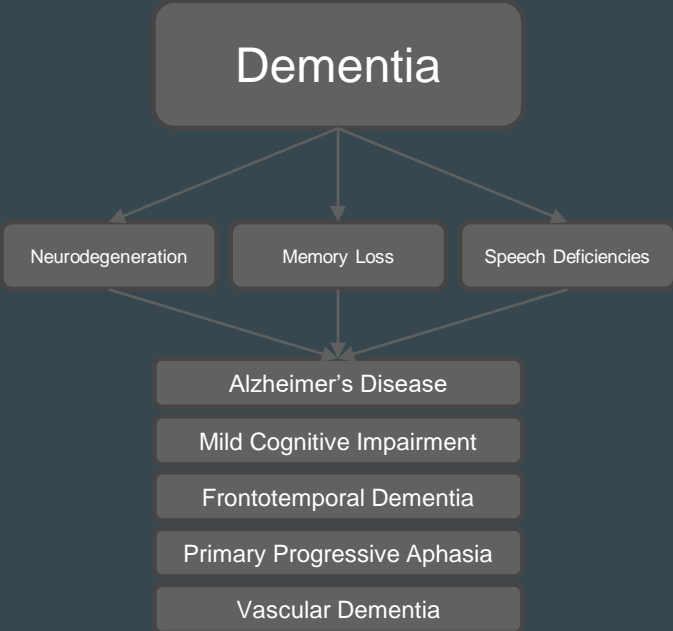


Ellen Korcovelos

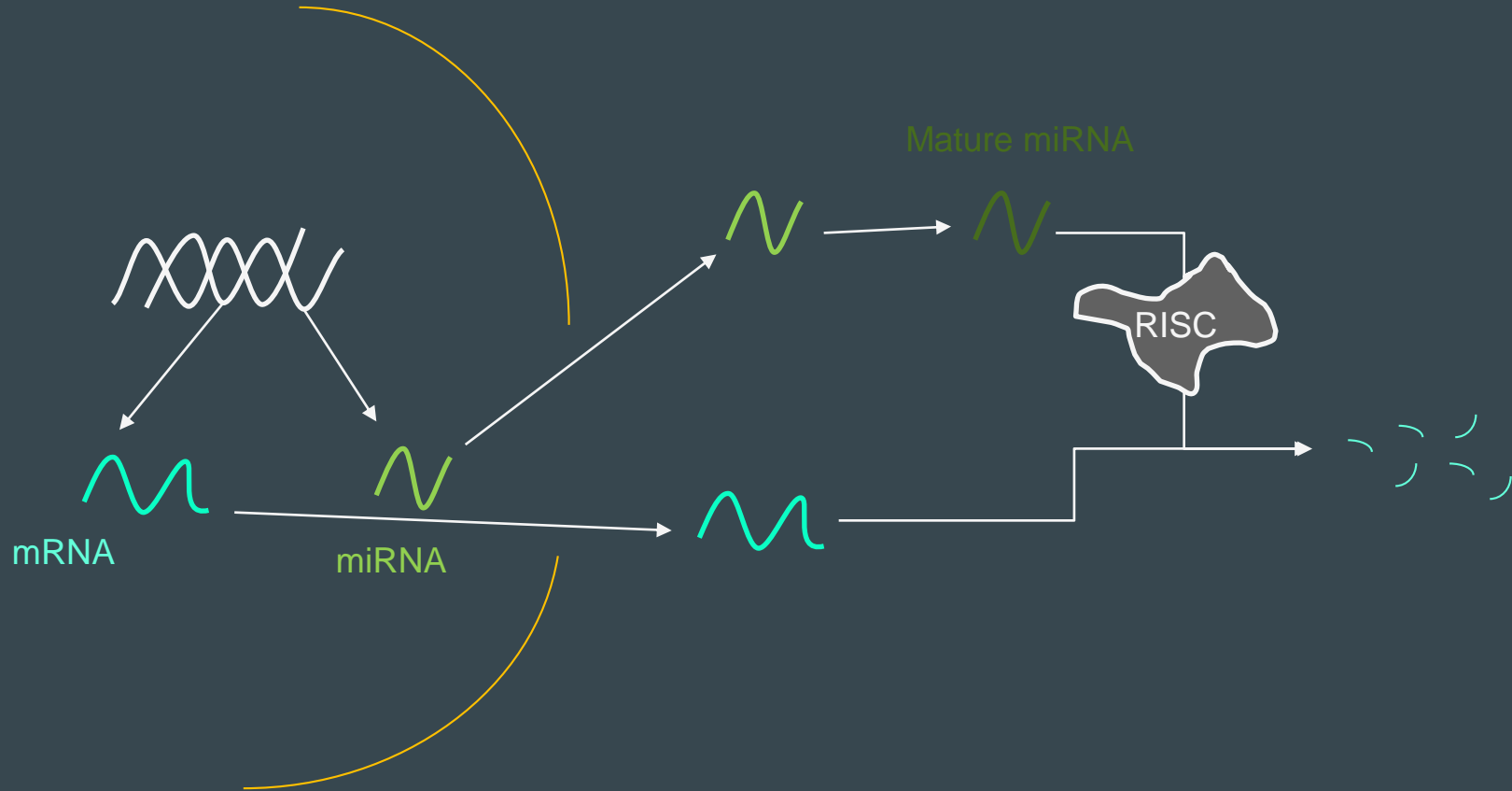
May 11, 2016

BNFO 300

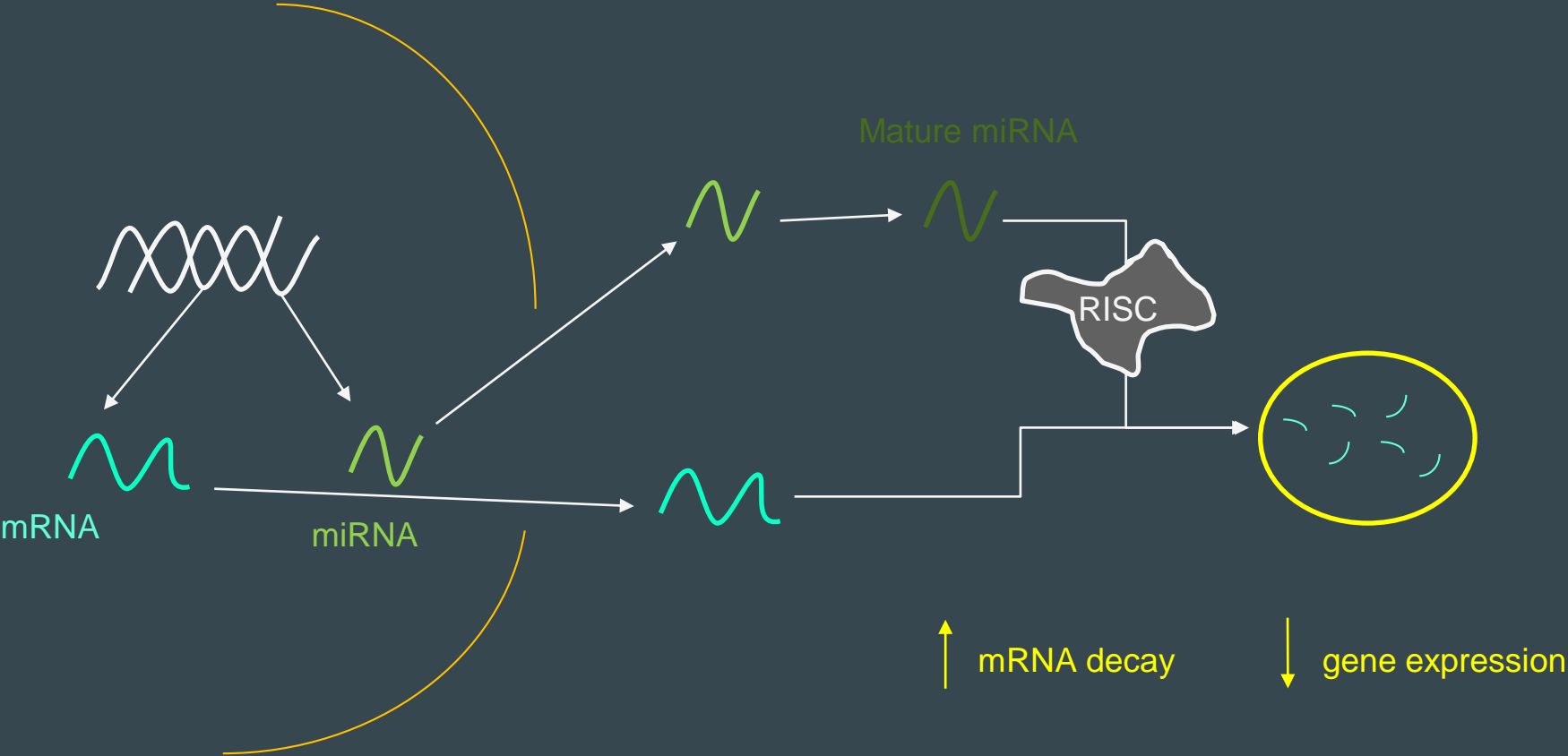
Issue at hand



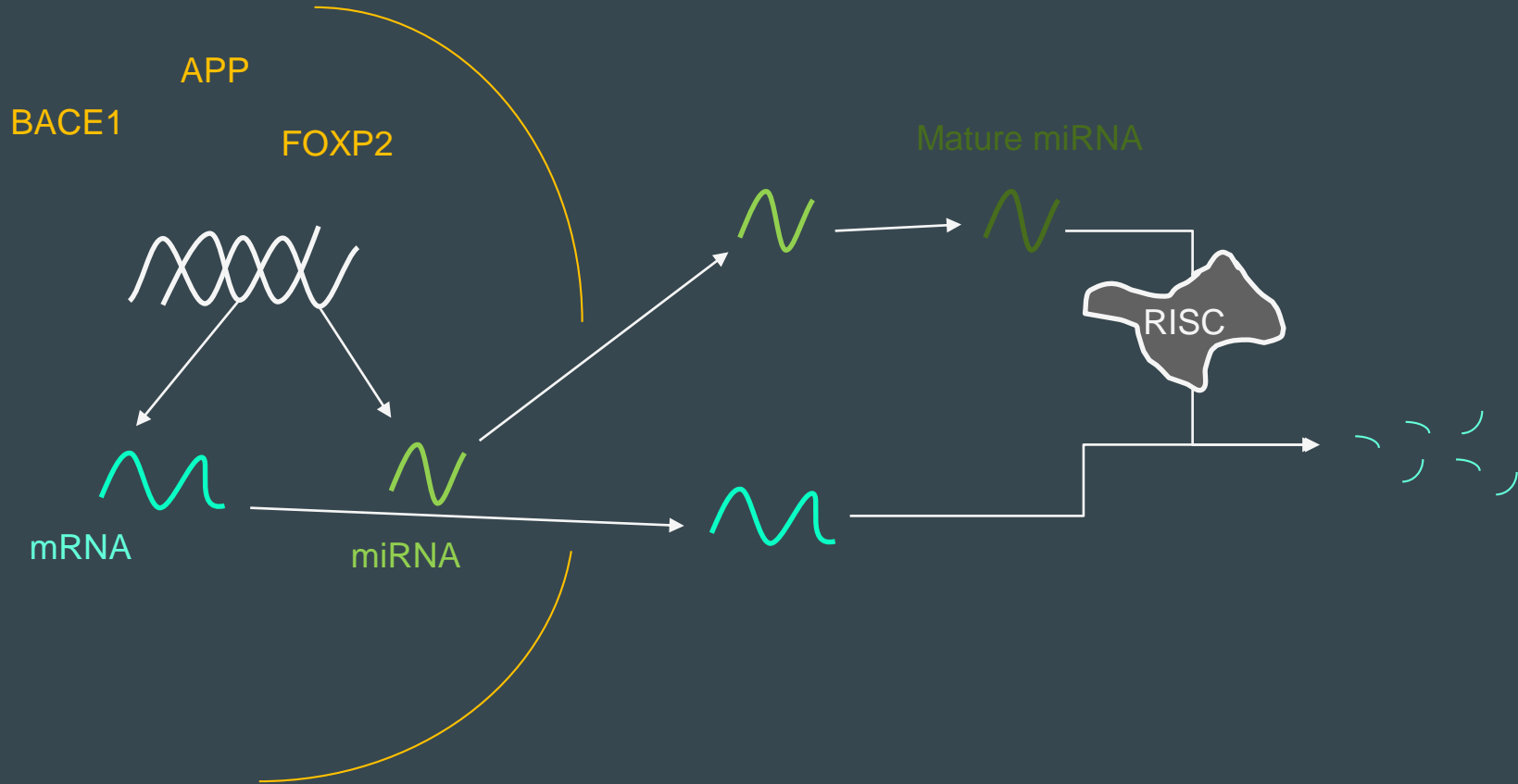
miRNAs and dementia



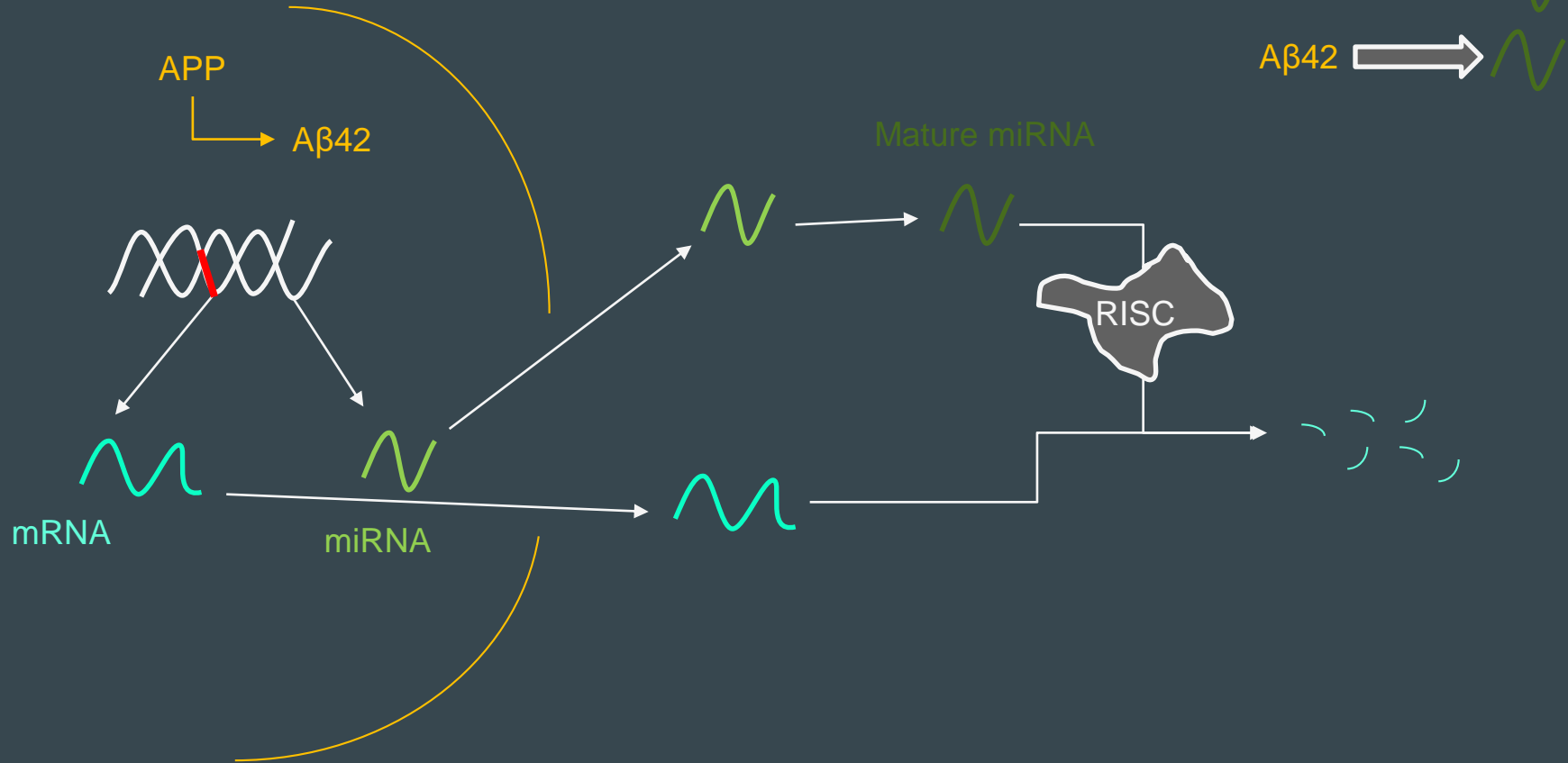
miRNAs and dementia



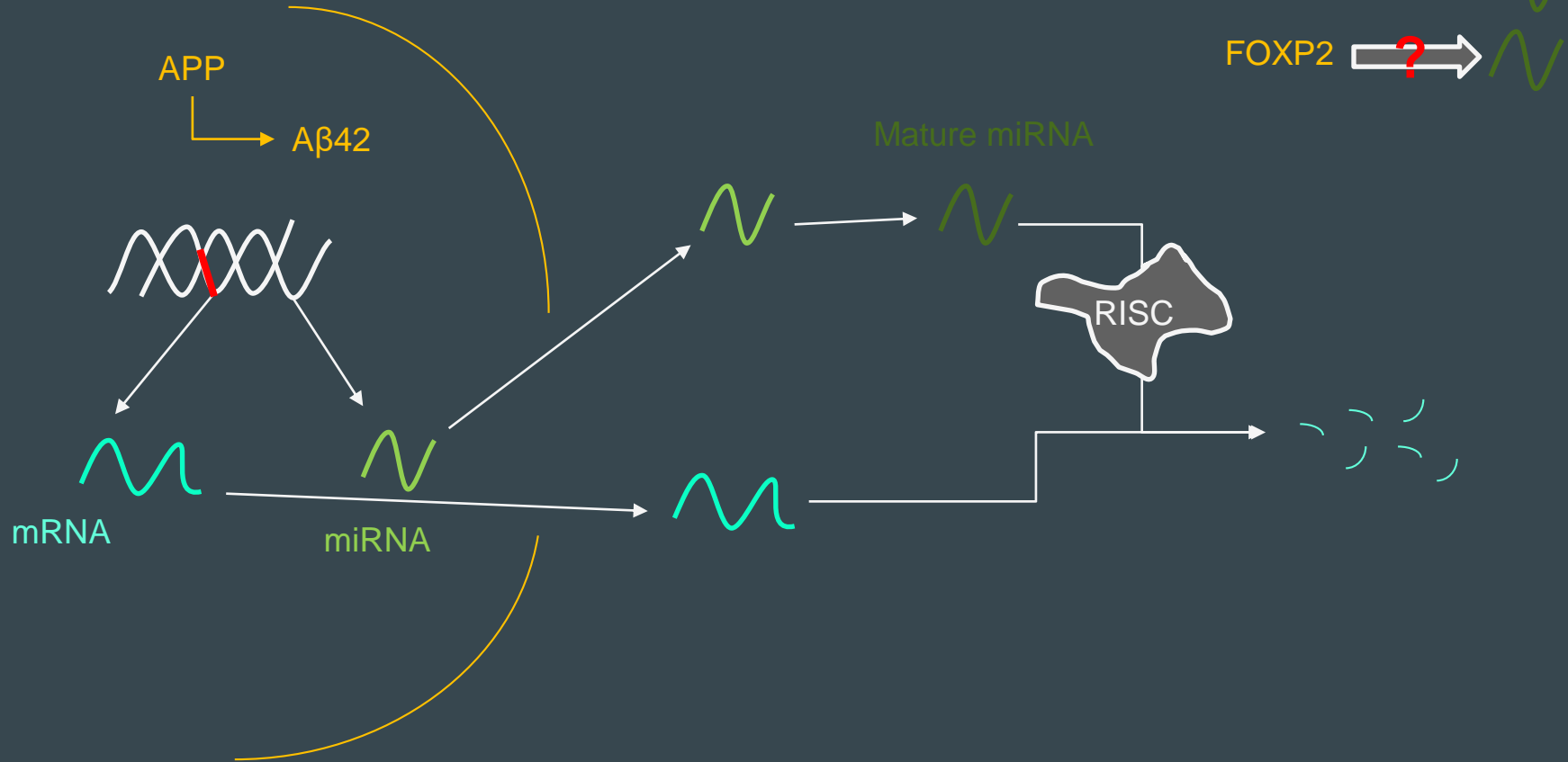
miRNAs and dementia



miRNAs and dementia



miRNAs and dementia



My experiment

Cell Preparation

Murine frontotemporal cells

½ unaltered FOXP2

½ point mutation affected FOXP2



Extracting the miRNA

Buffer lyses tissue

DNA removed by centrifugation

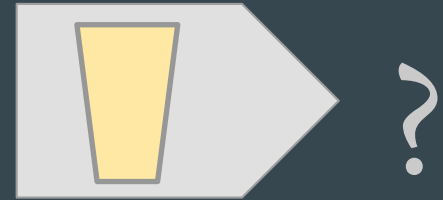
RNA binding membrane



Analyzing Expression

TaqMan Low-Density Microarray

Rt-PCR



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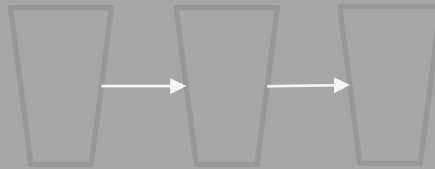


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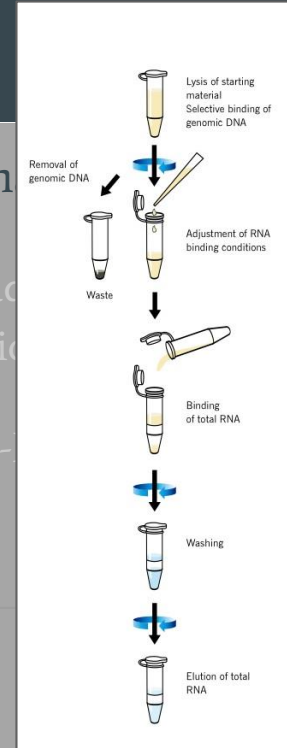
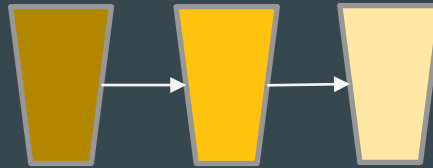


Extracting the miRNA

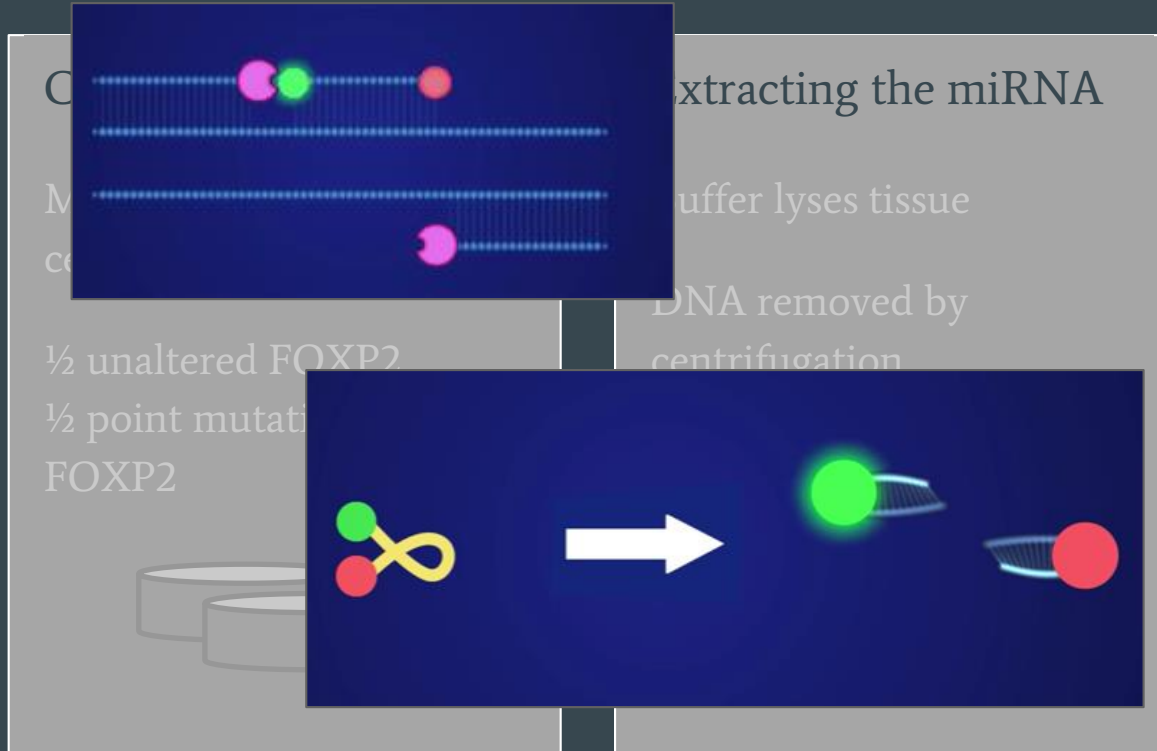
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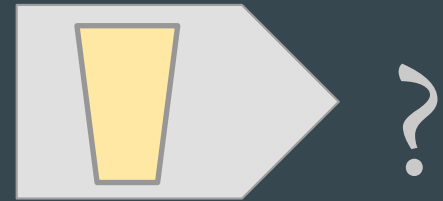
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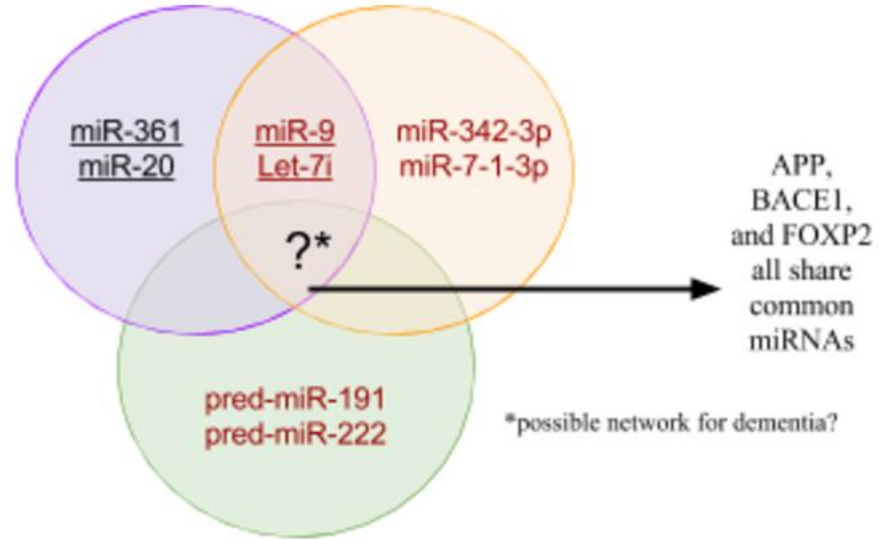
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Rt-PCR



Possible Results



Thank you.