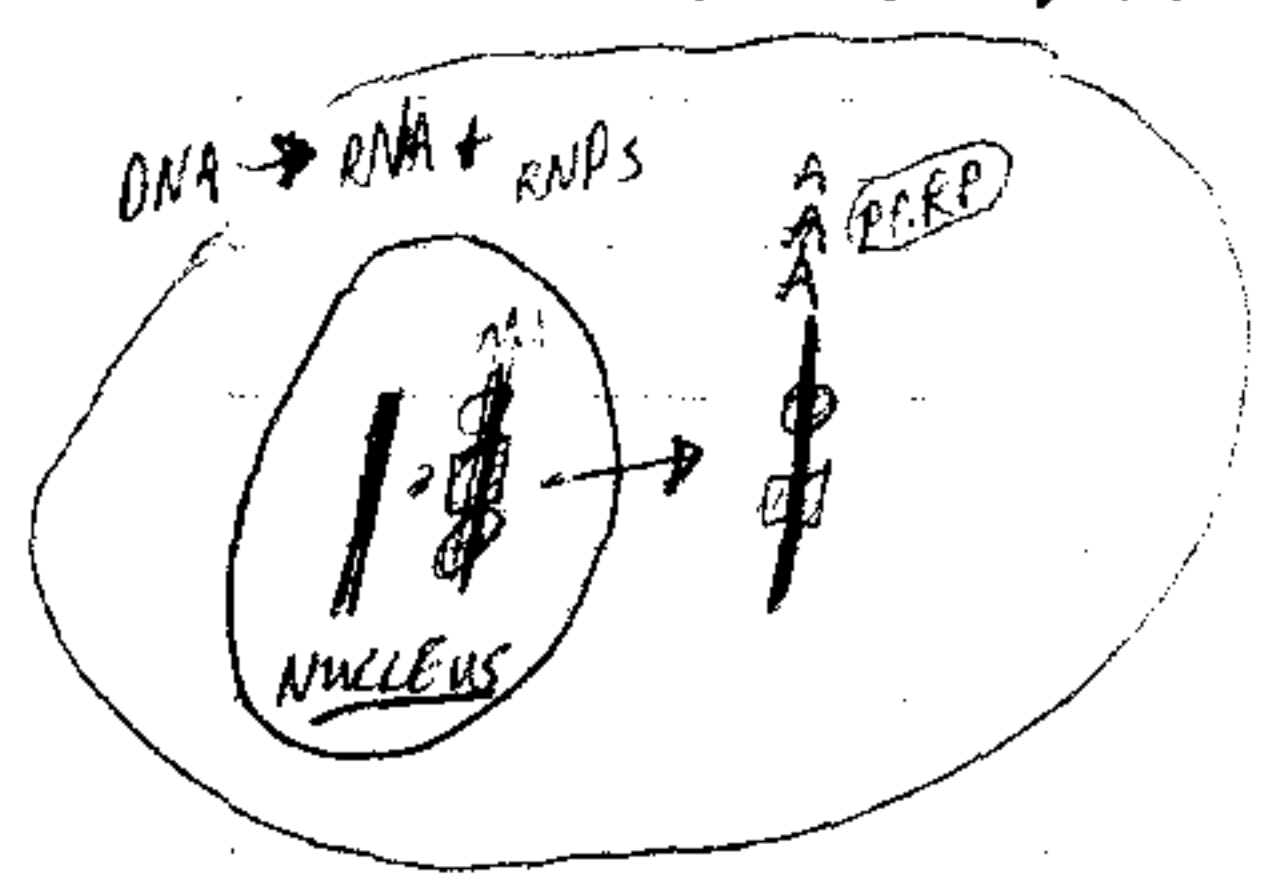


: RNA binding proteins

~~David Baltimore - Molecular Evolutionary Dynamics~~



- ① isolated proteins associated w/ hnRNA's
- ② cloned cDNAs for many of these

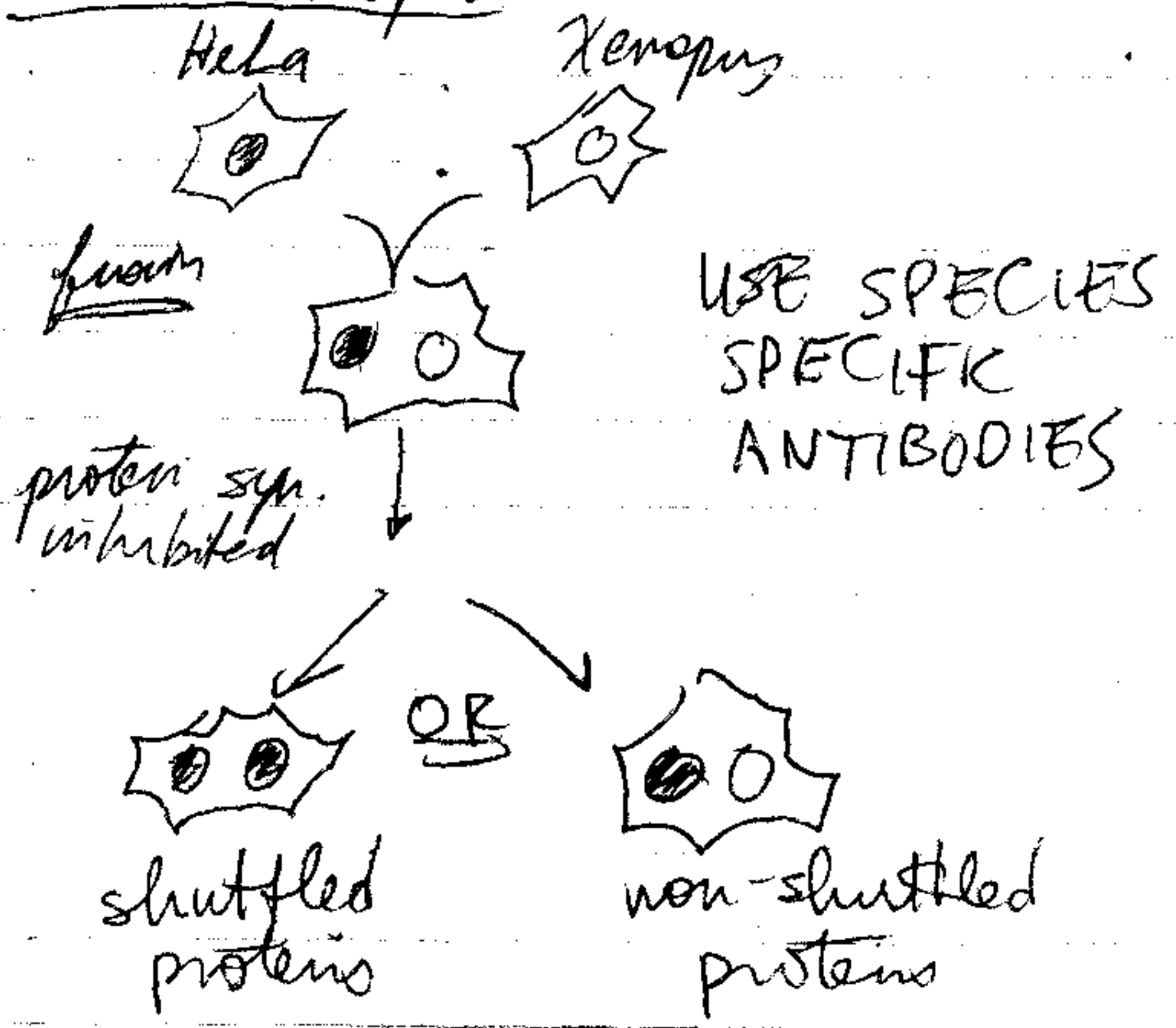
Abundance

- most are very abundant in "higher" Euk cells
- alteration in relative abundance has major effects on spleen

Binding

- each has distinct RNA binding specificity
- each major one found on most if not all RNAs

Protein transport



RNA binding motifs

RGG box - RGG[X]<sub>1-4</sub> RGG [X]<sub>1-4</sub> RGG [X]<sub>1-4</sub> RGG

KH domain -

FMRI - has both, including two KH motifs

- tx & te in vitro --- binds RNA
- cytoplasmically localized
- two proteins interact w/ it

FMRI

- xenopus doesn't have trinucleotide repeat
- nor does fish

