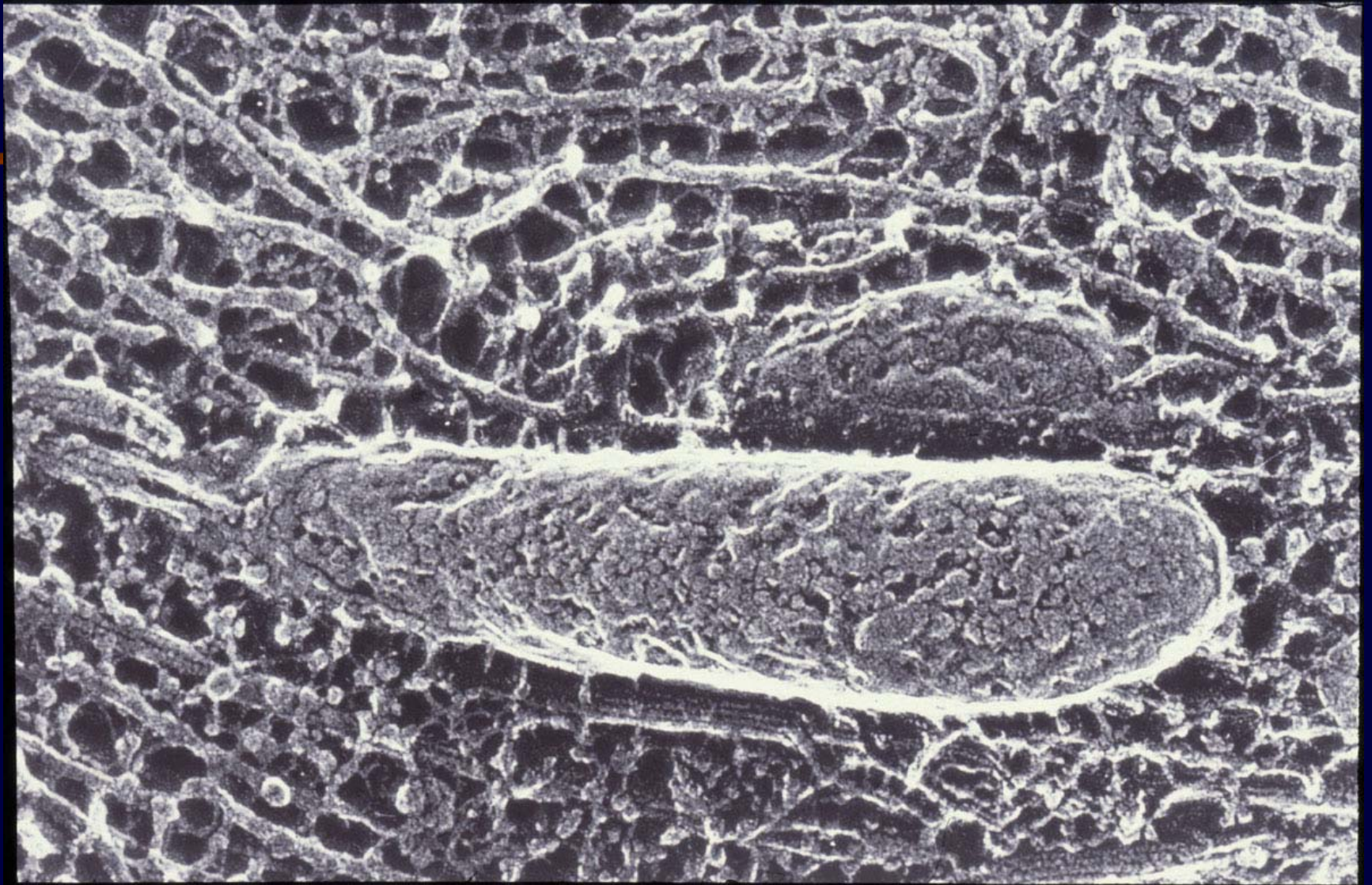
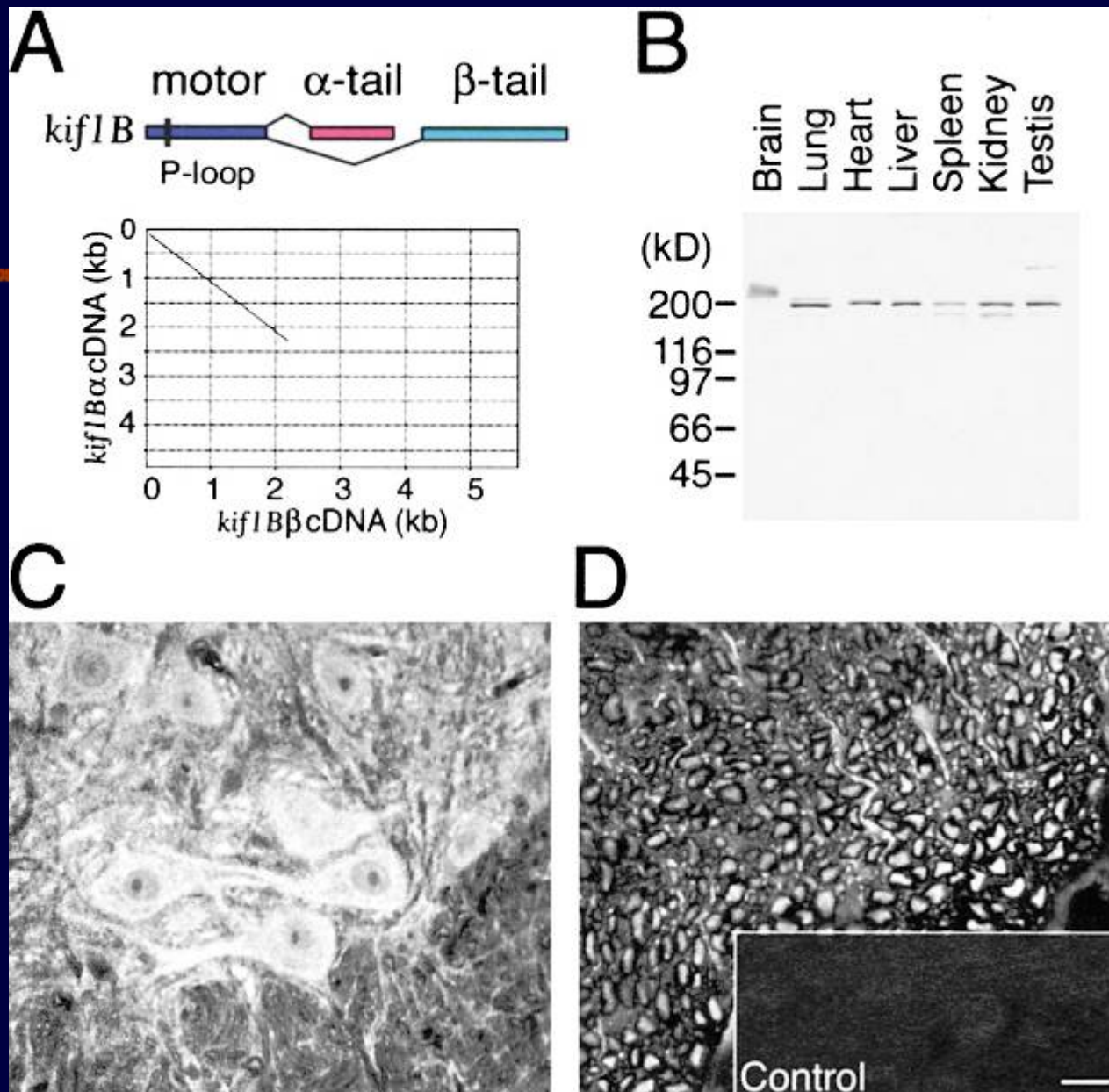
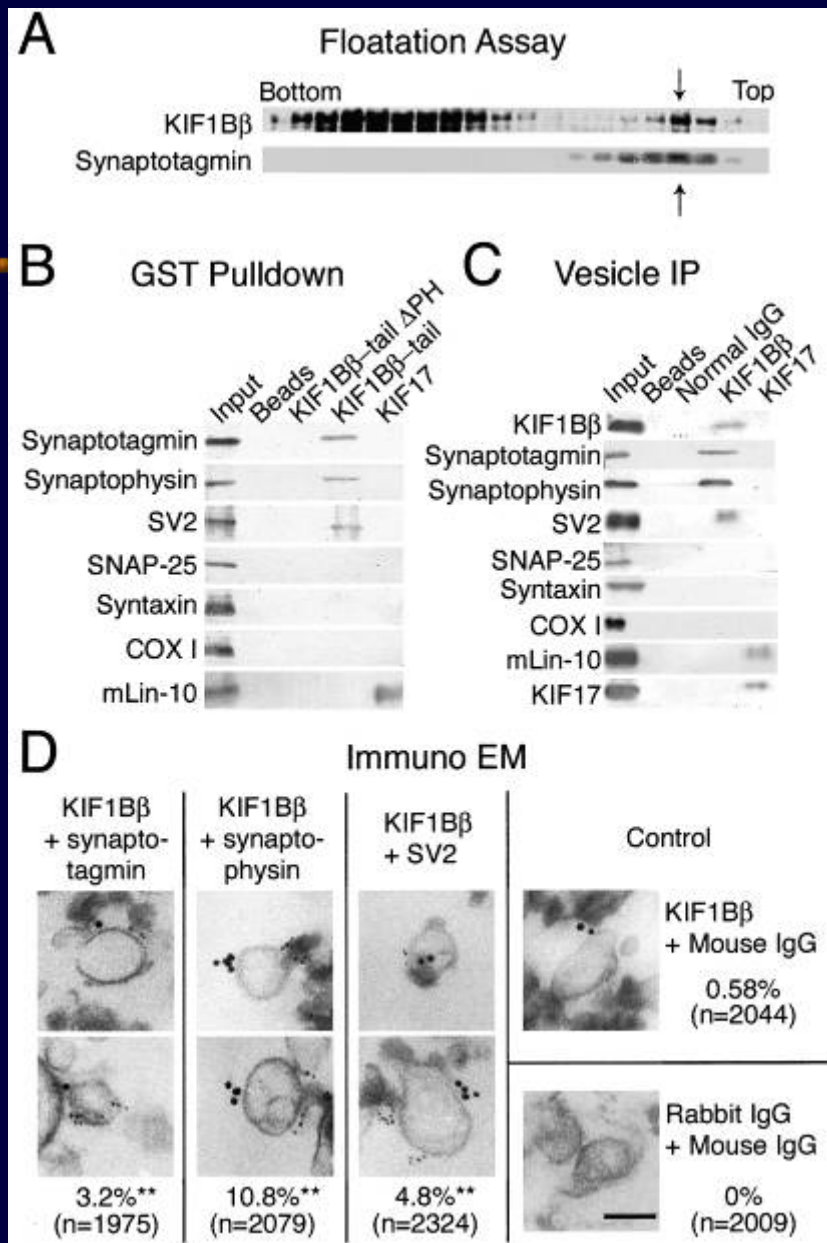
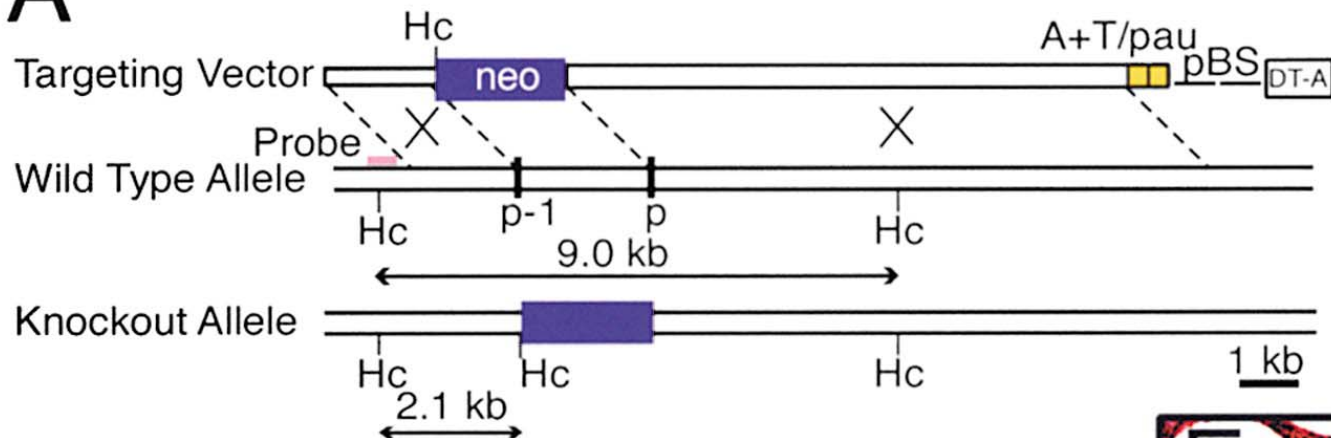
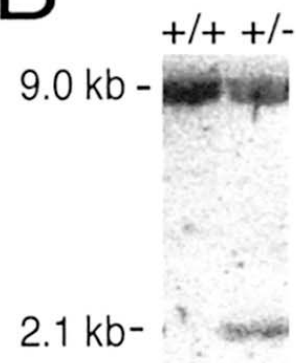
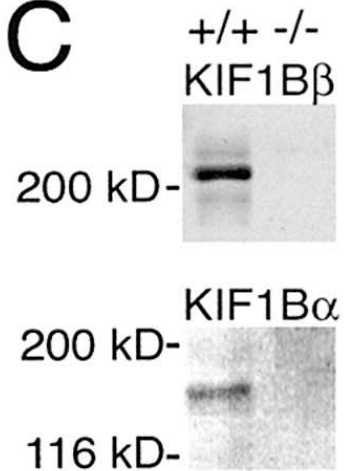
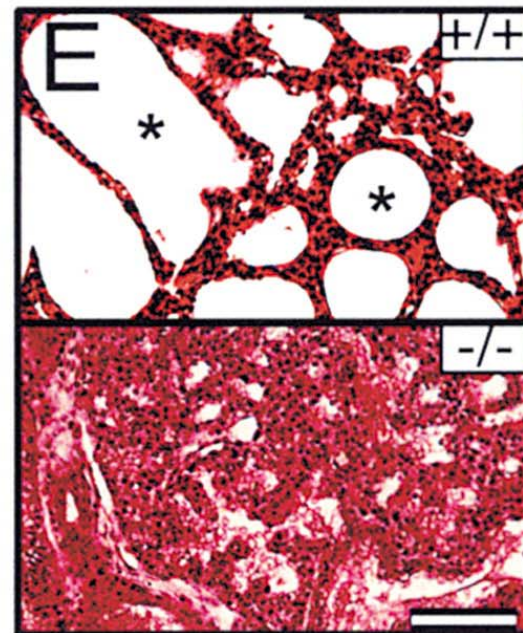
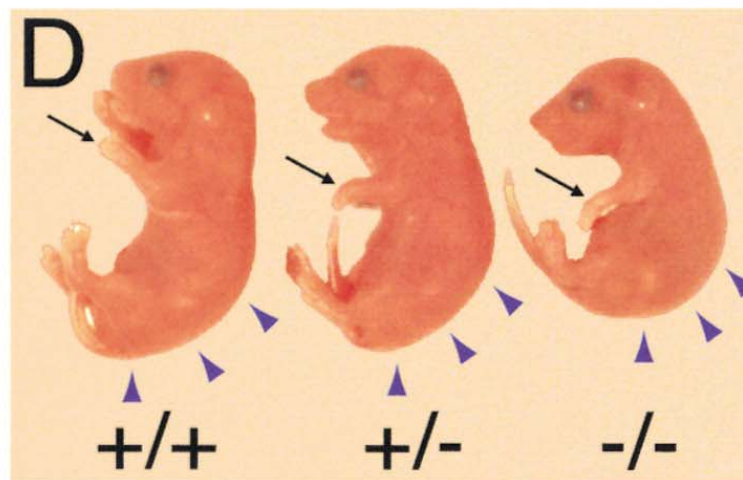


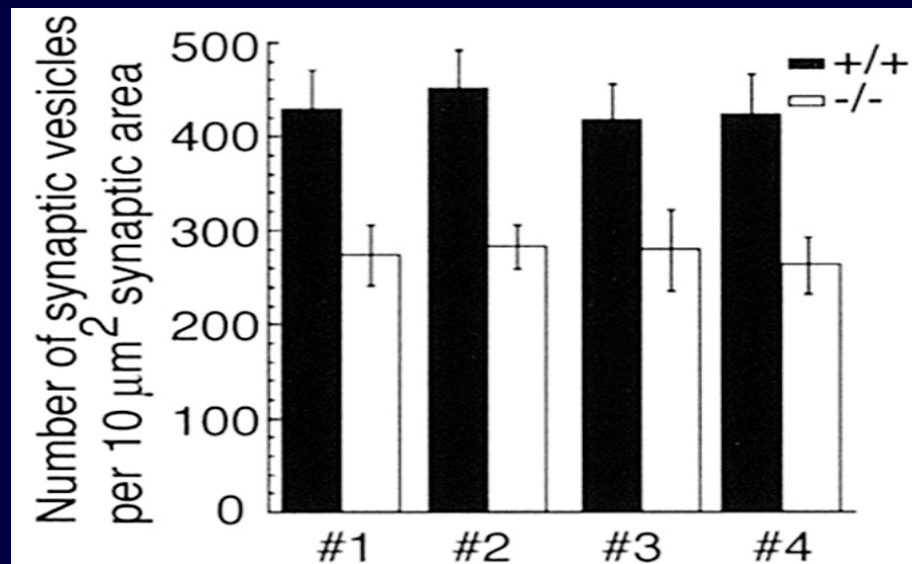
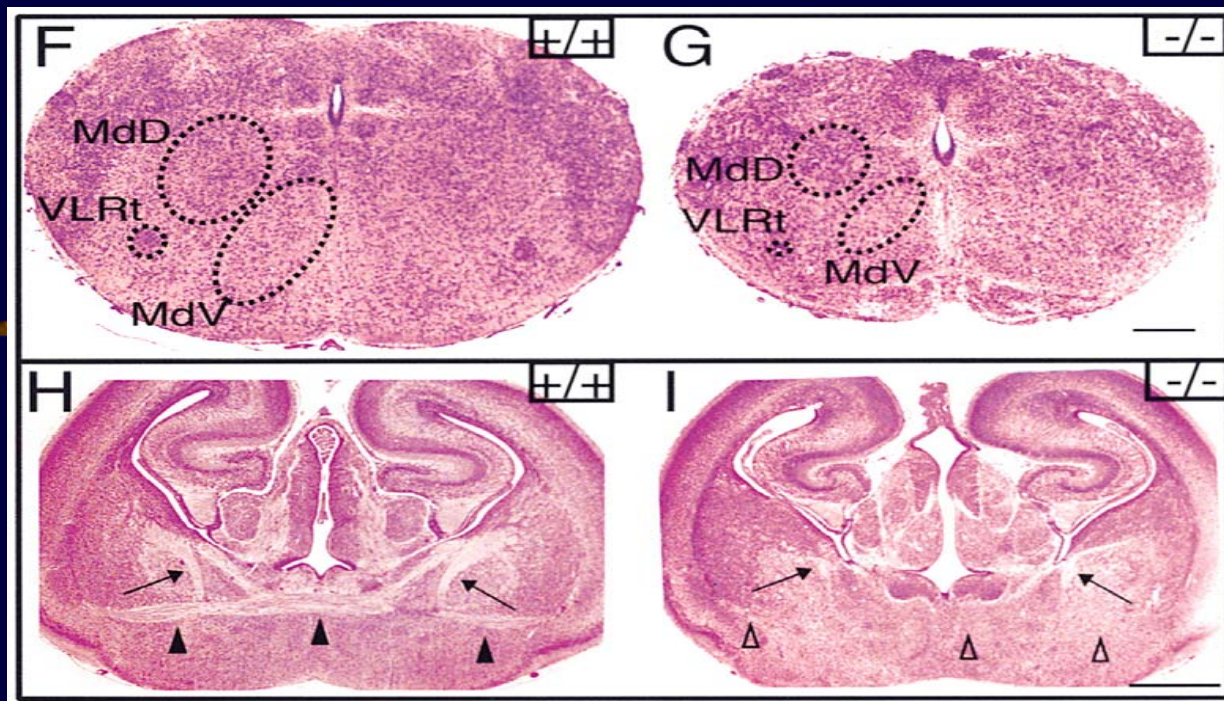




Zhao et al. Cell 105:587-, 2001

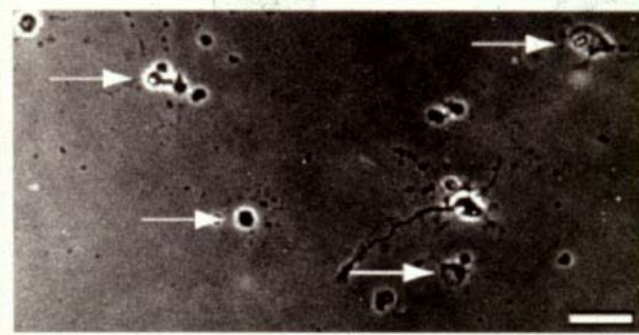
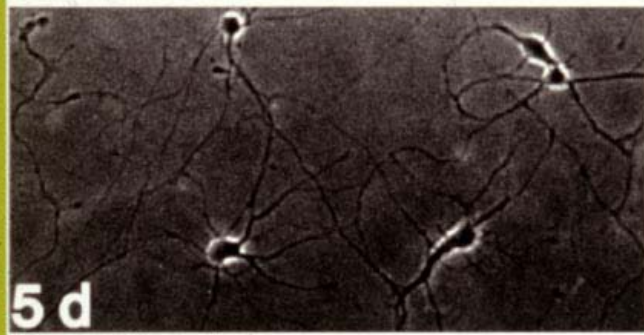
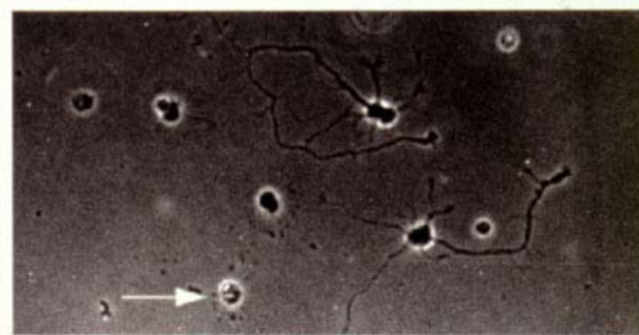
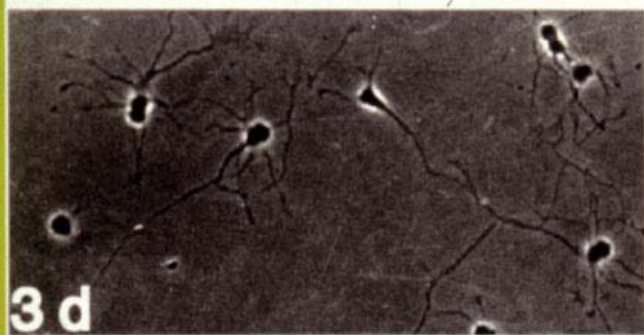
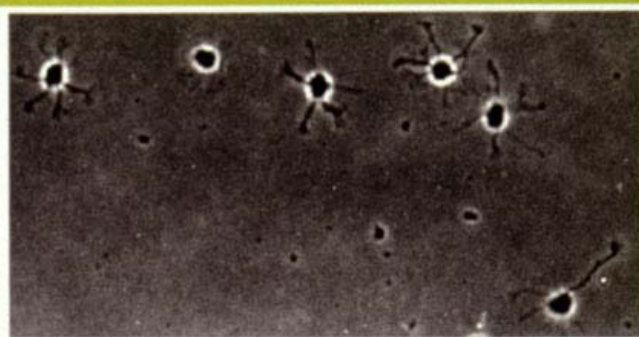
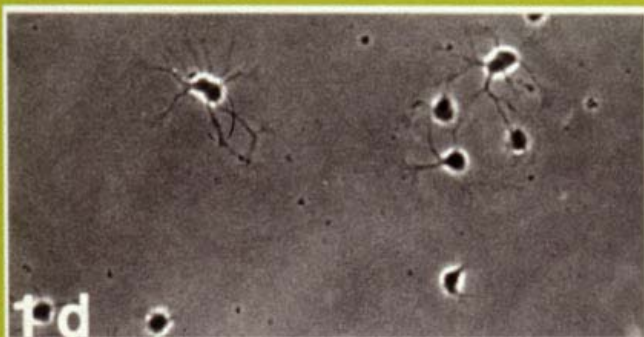


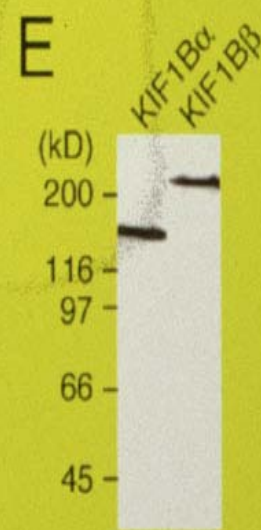
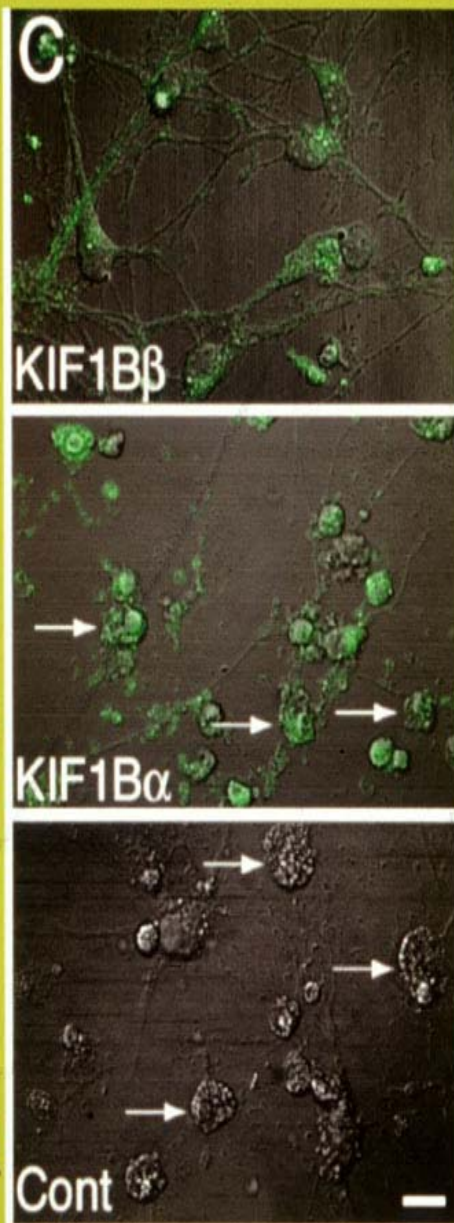
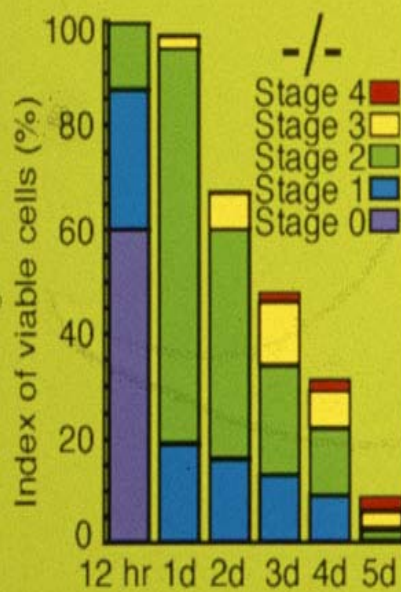
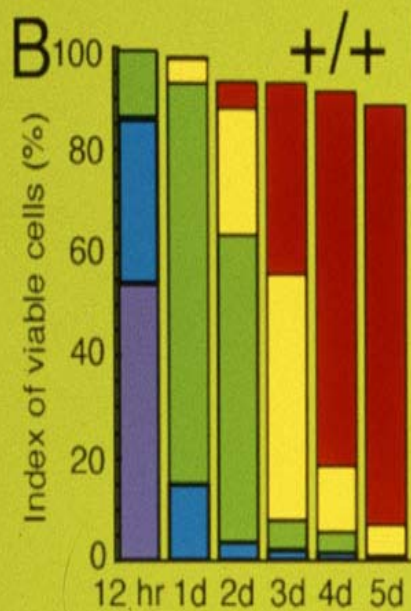
A**B****C****D**



$+/+$

$-/-$





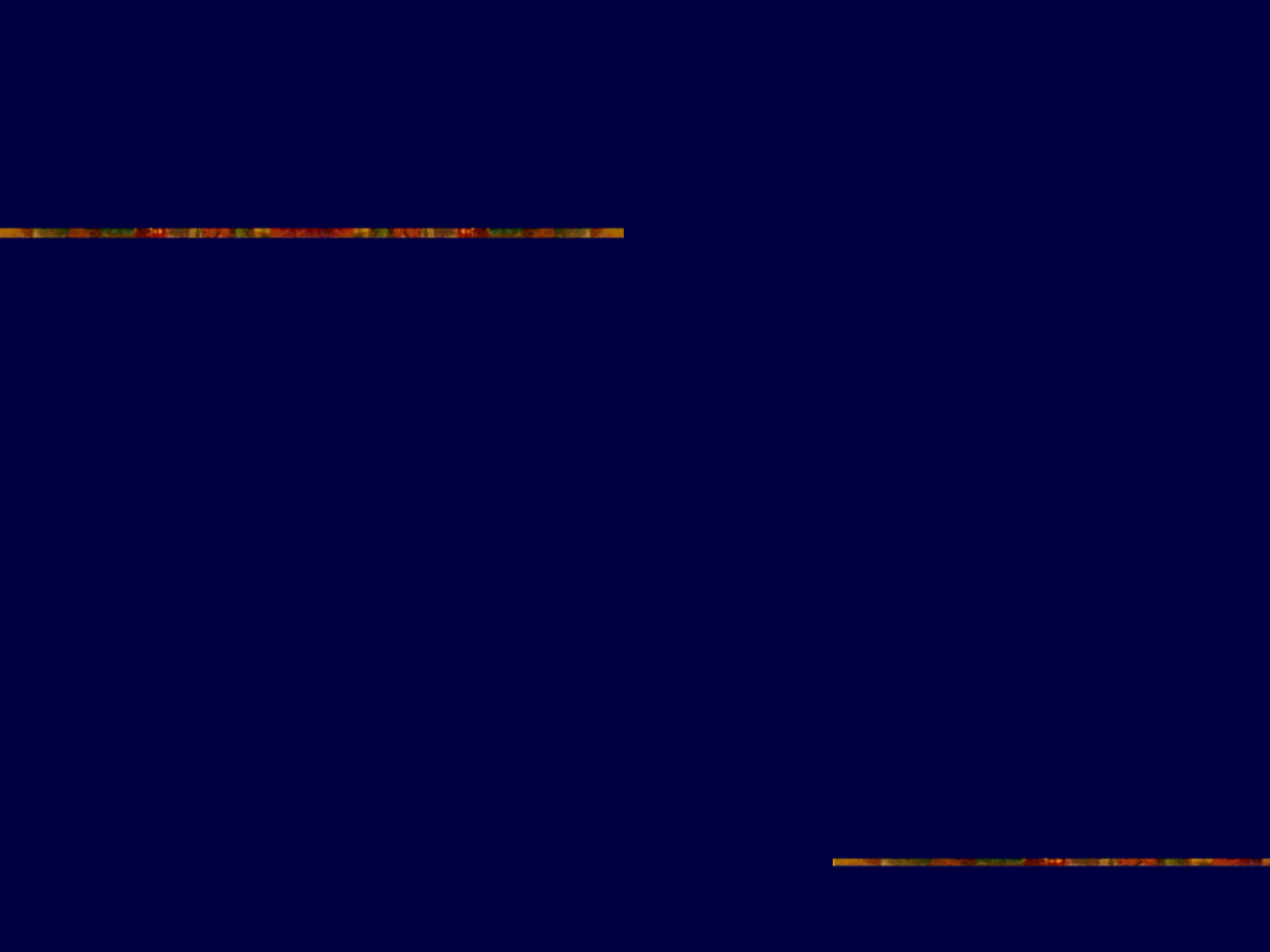
Cell

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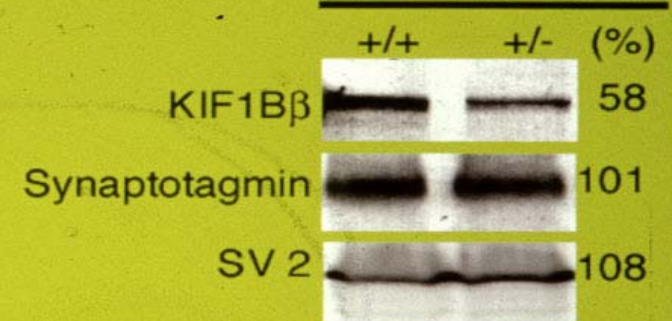
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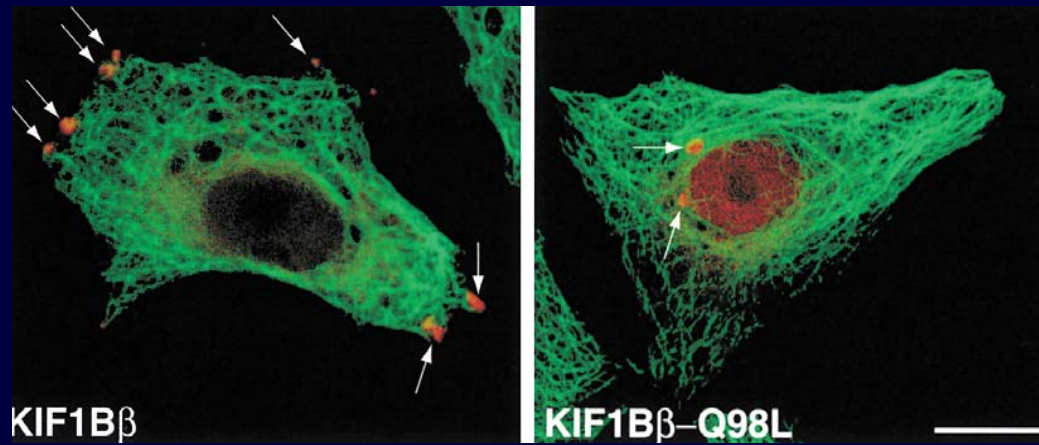
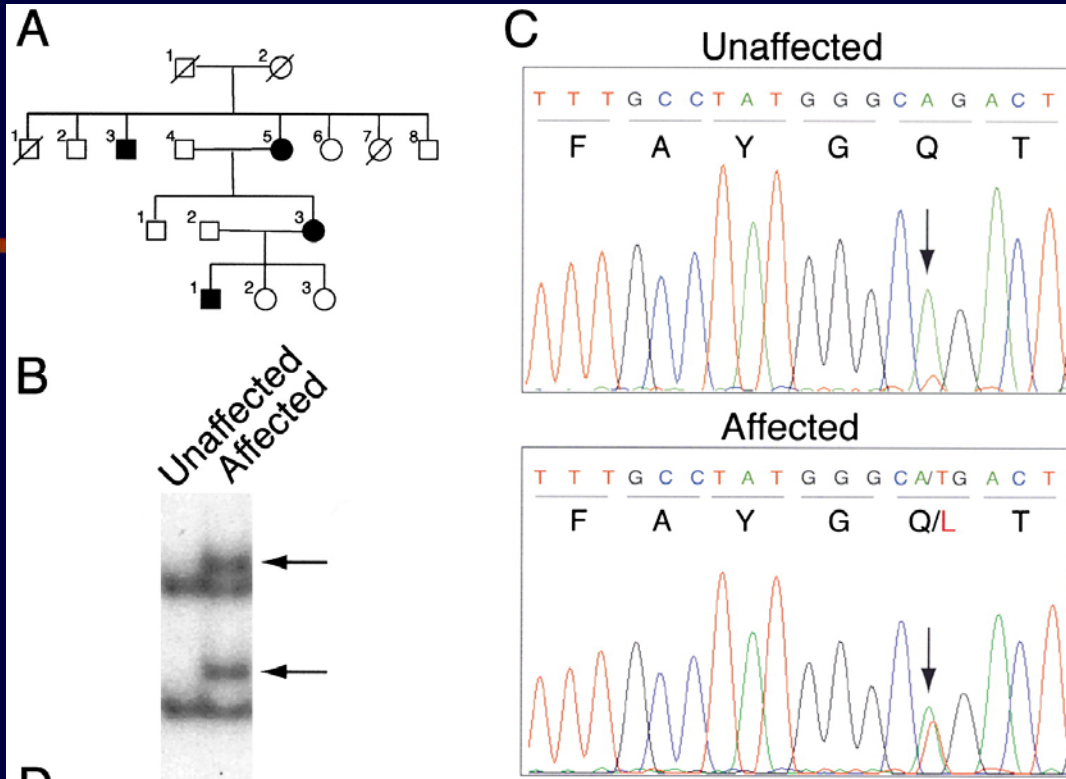


sciatic nerve



spinal cord



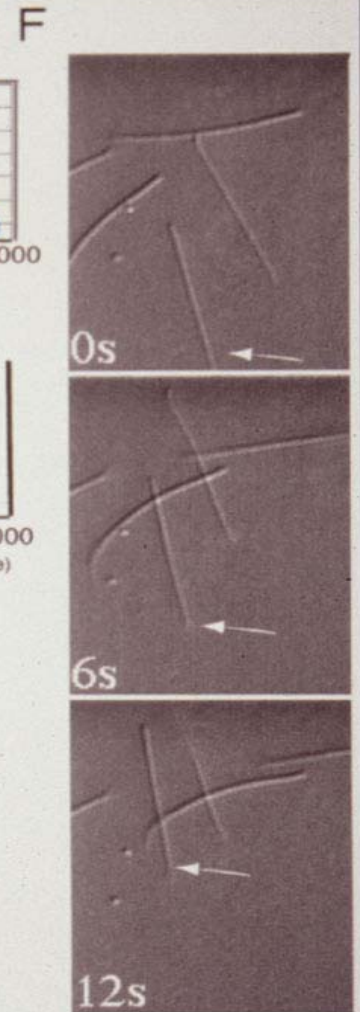
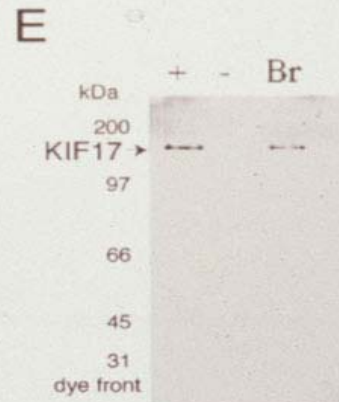
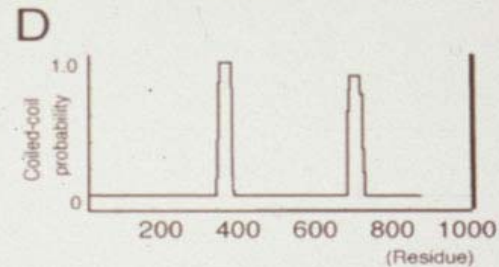
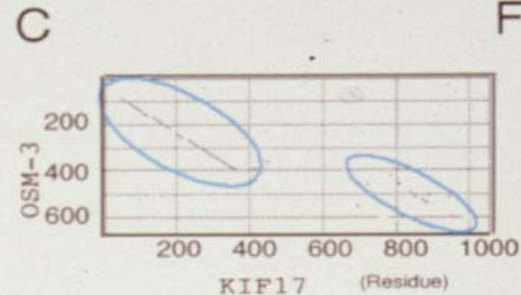
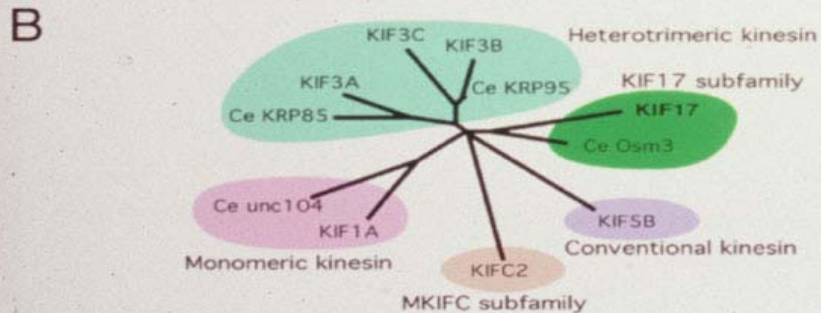


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Reprint Series

Science

9 June 2000

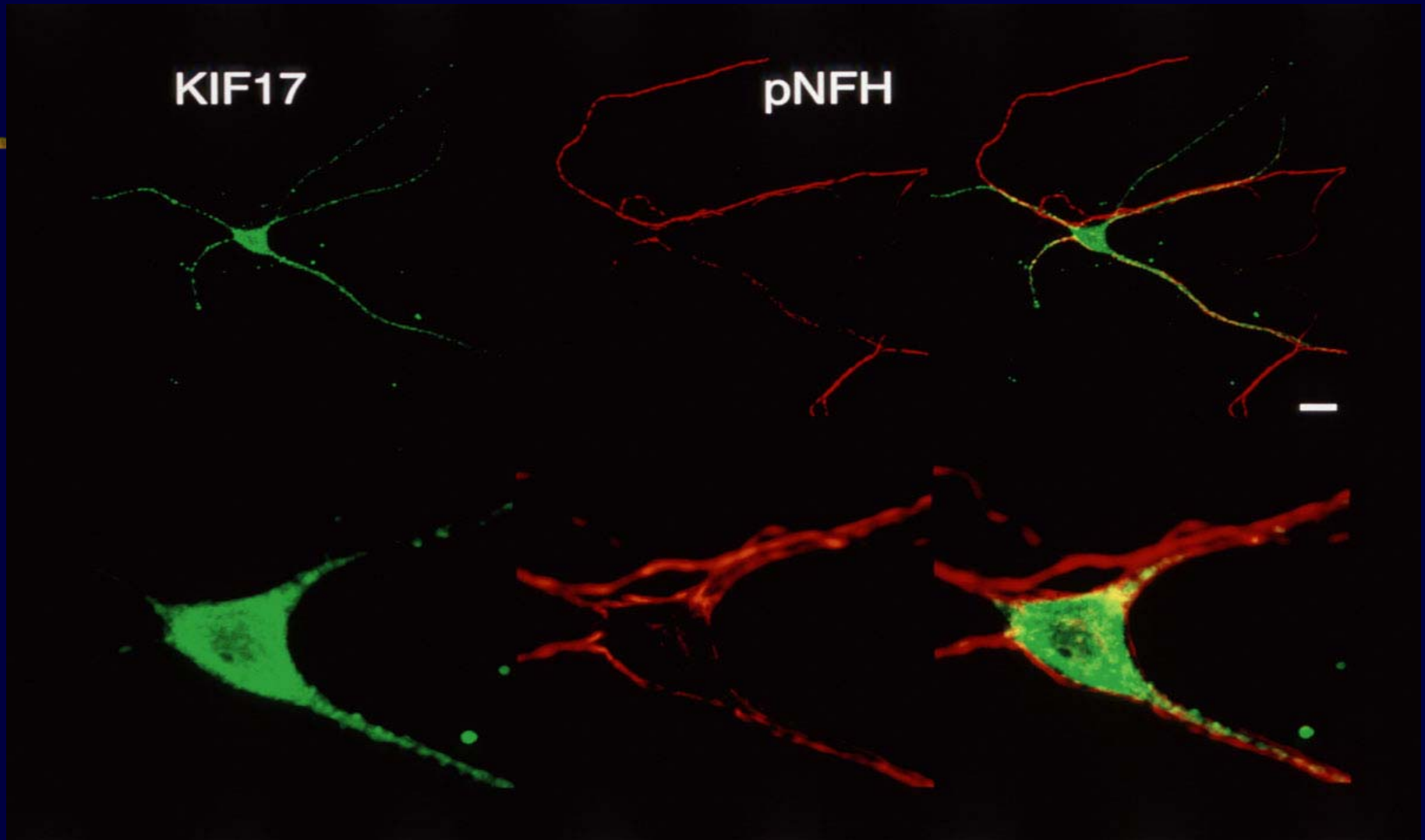
Vol. 288 No. 5472
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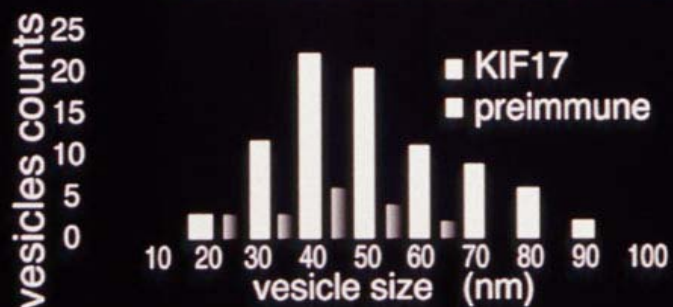
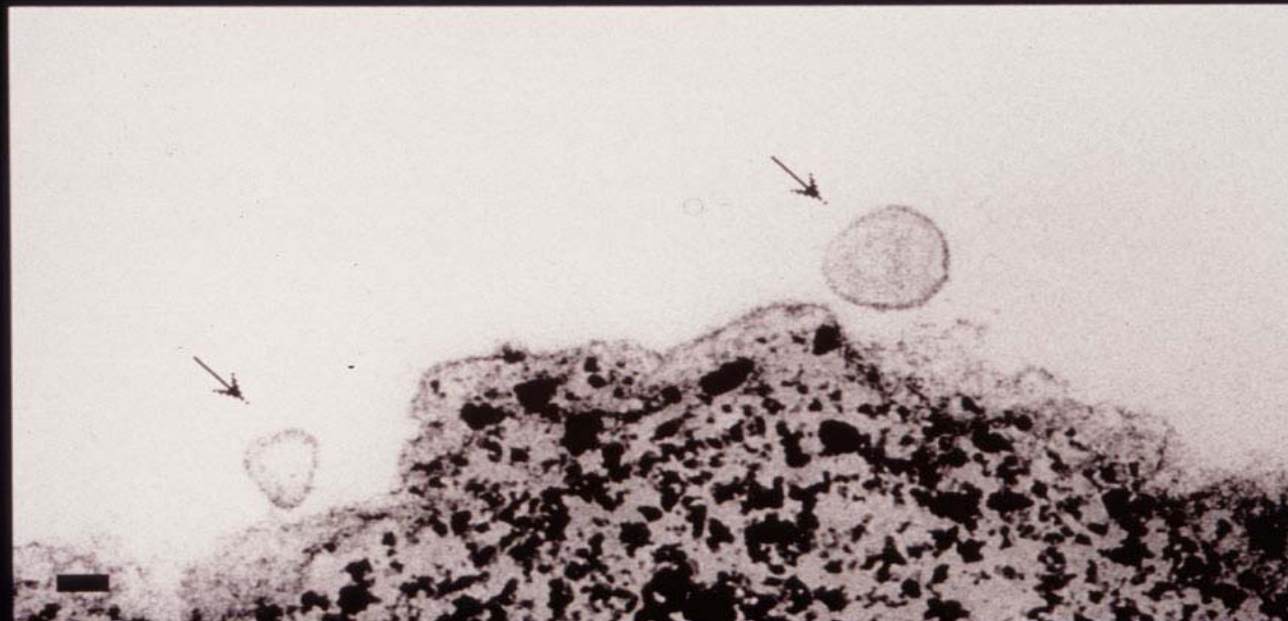


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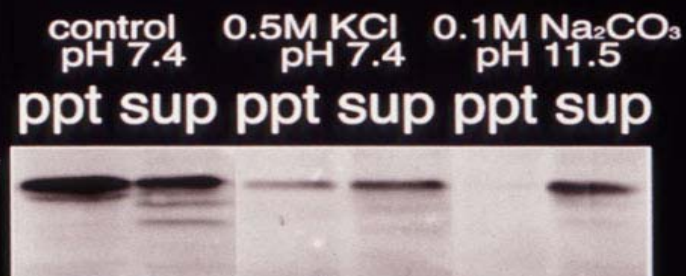
KIF17

pNFH





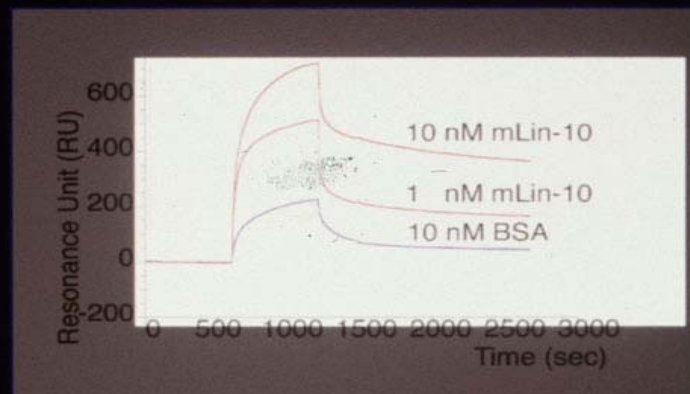
KIF17



Yeast Two Hybrid



KIF17 mLin-10 binding



NR1

mLin-10 IgG

NR2B

mLin-7

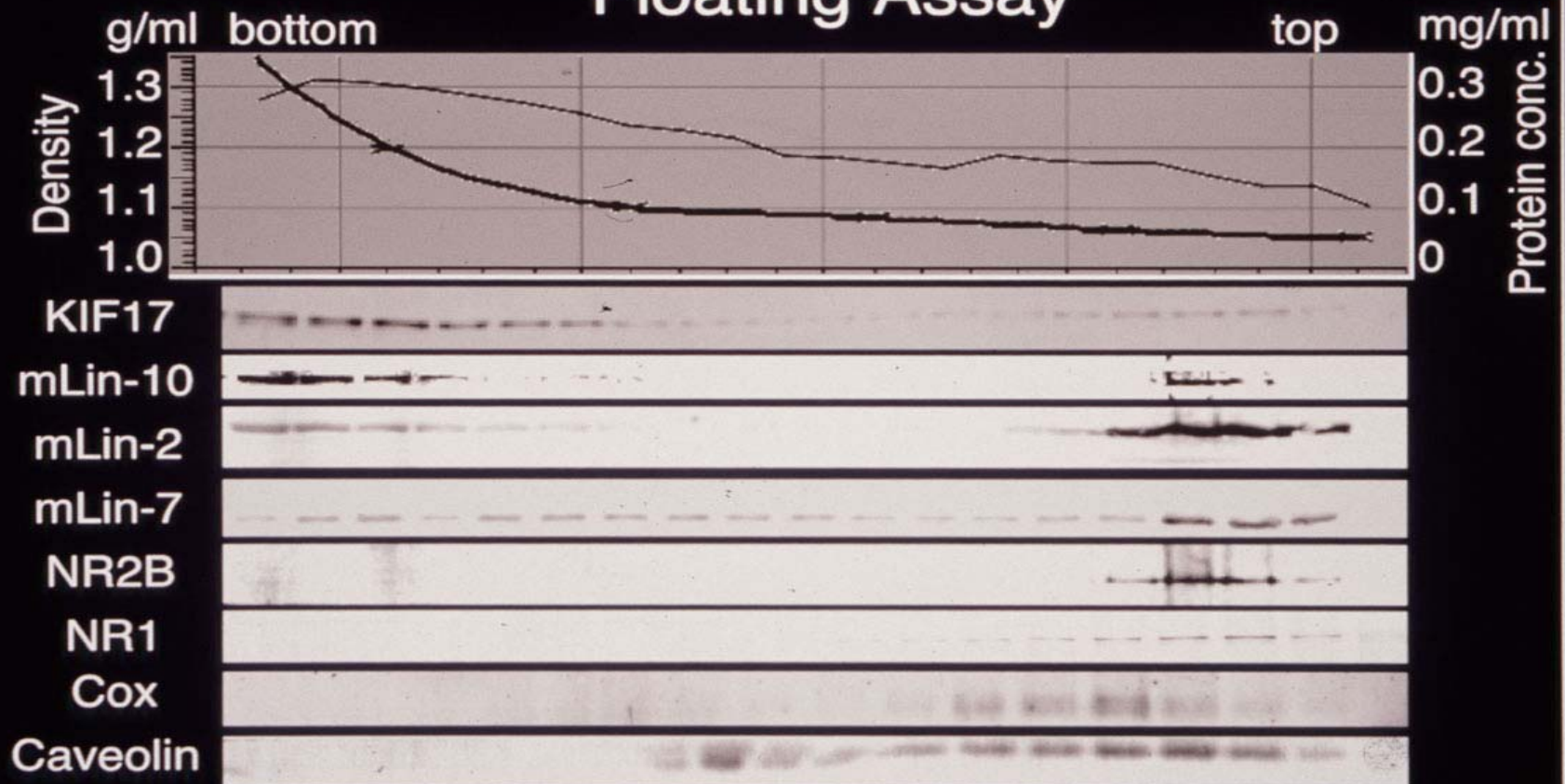
mLin-2

mLin-10

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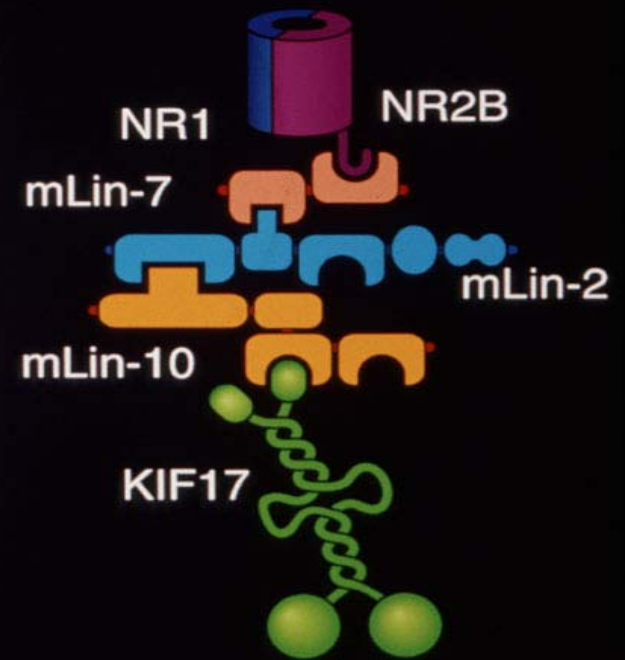
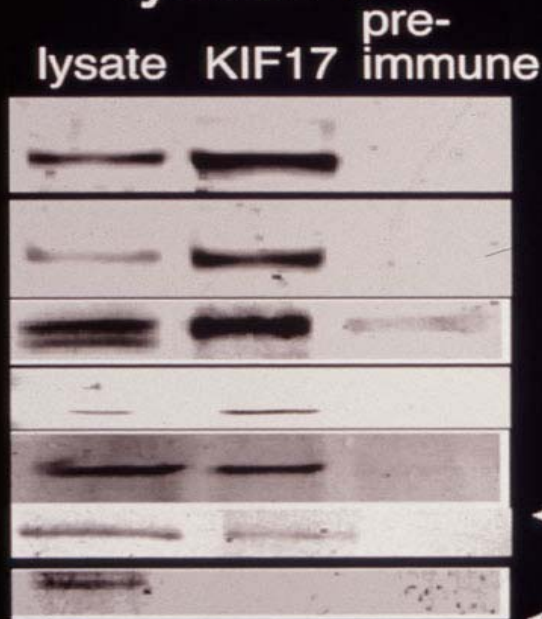
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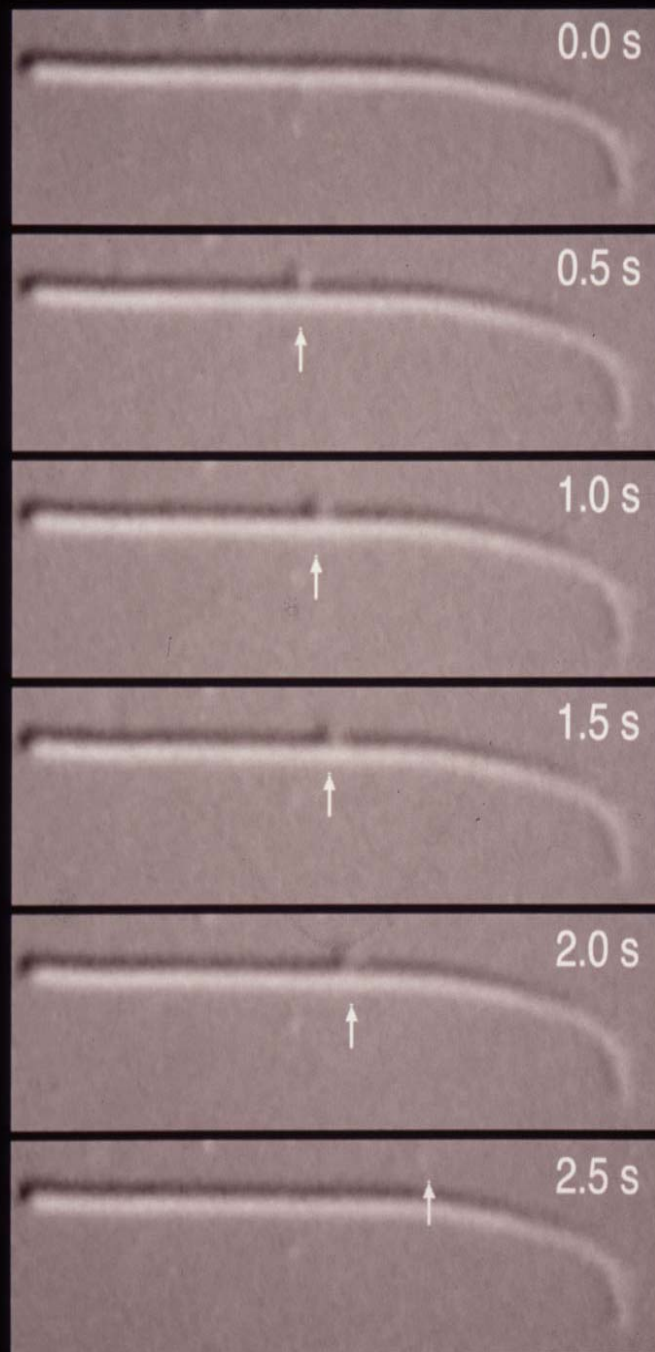


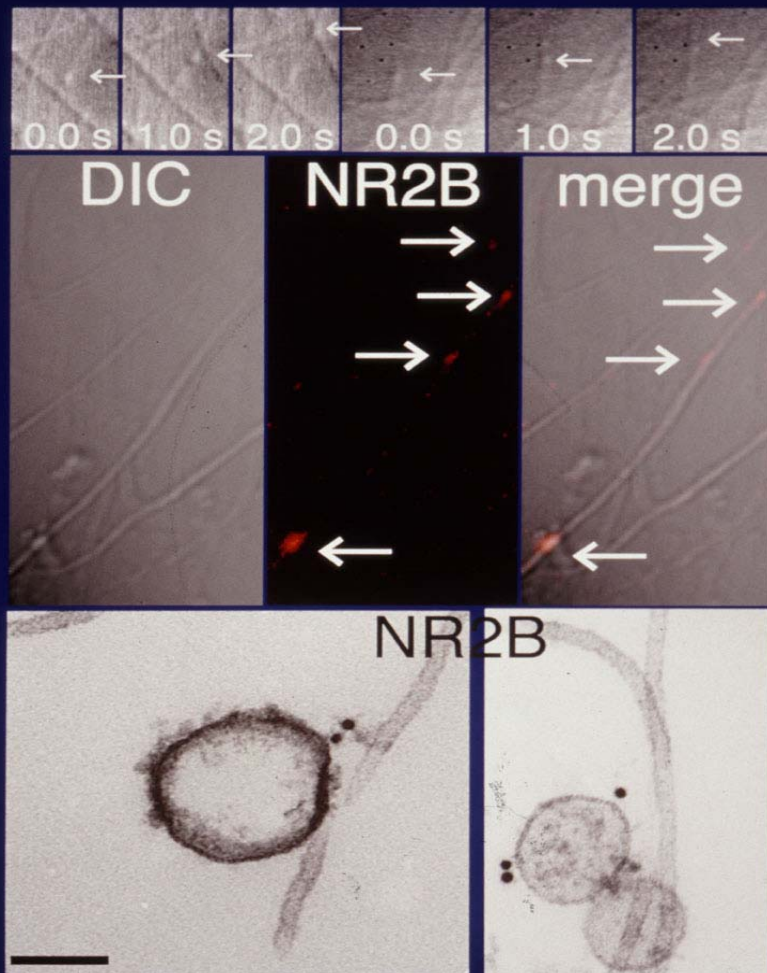
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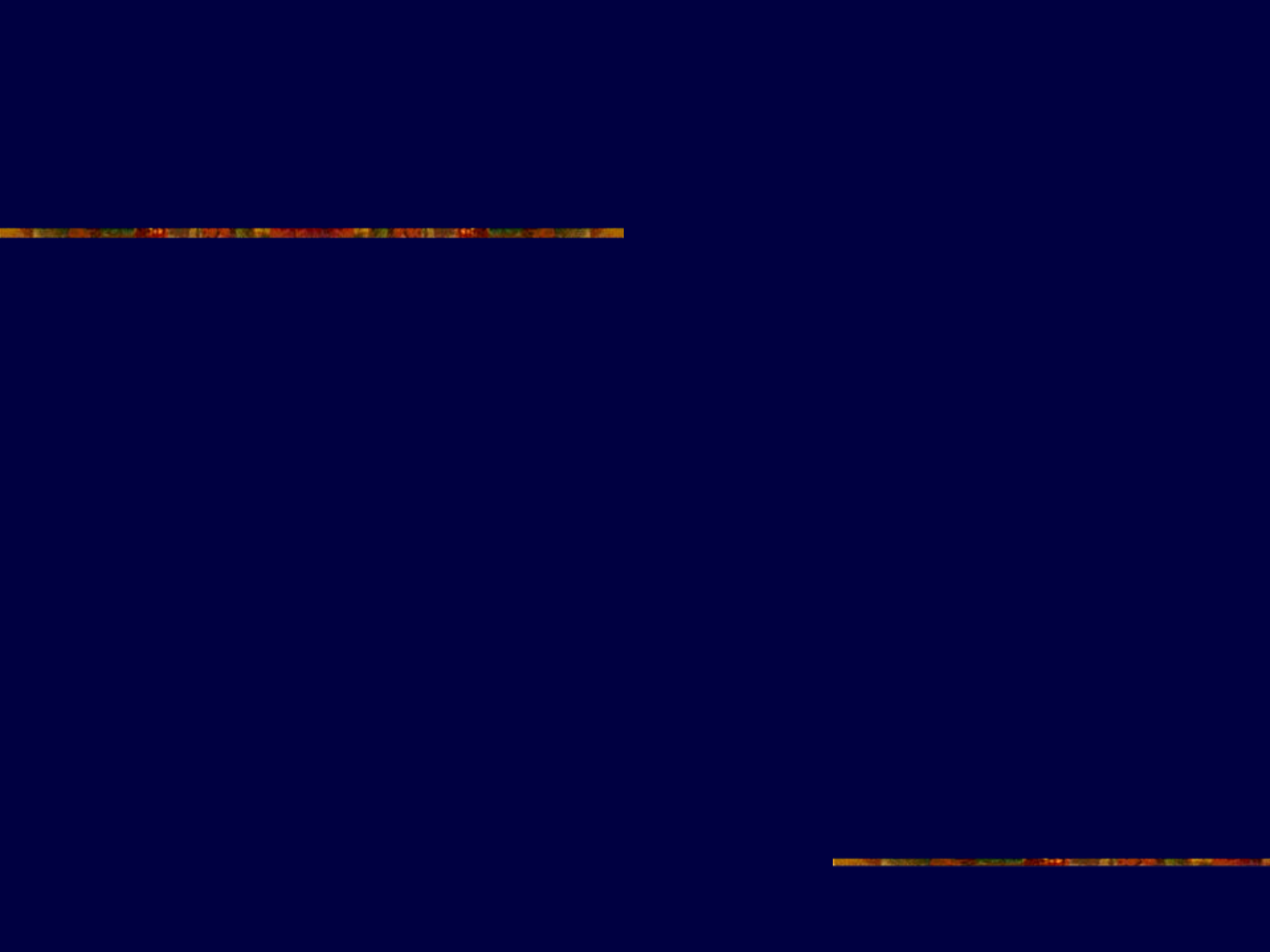
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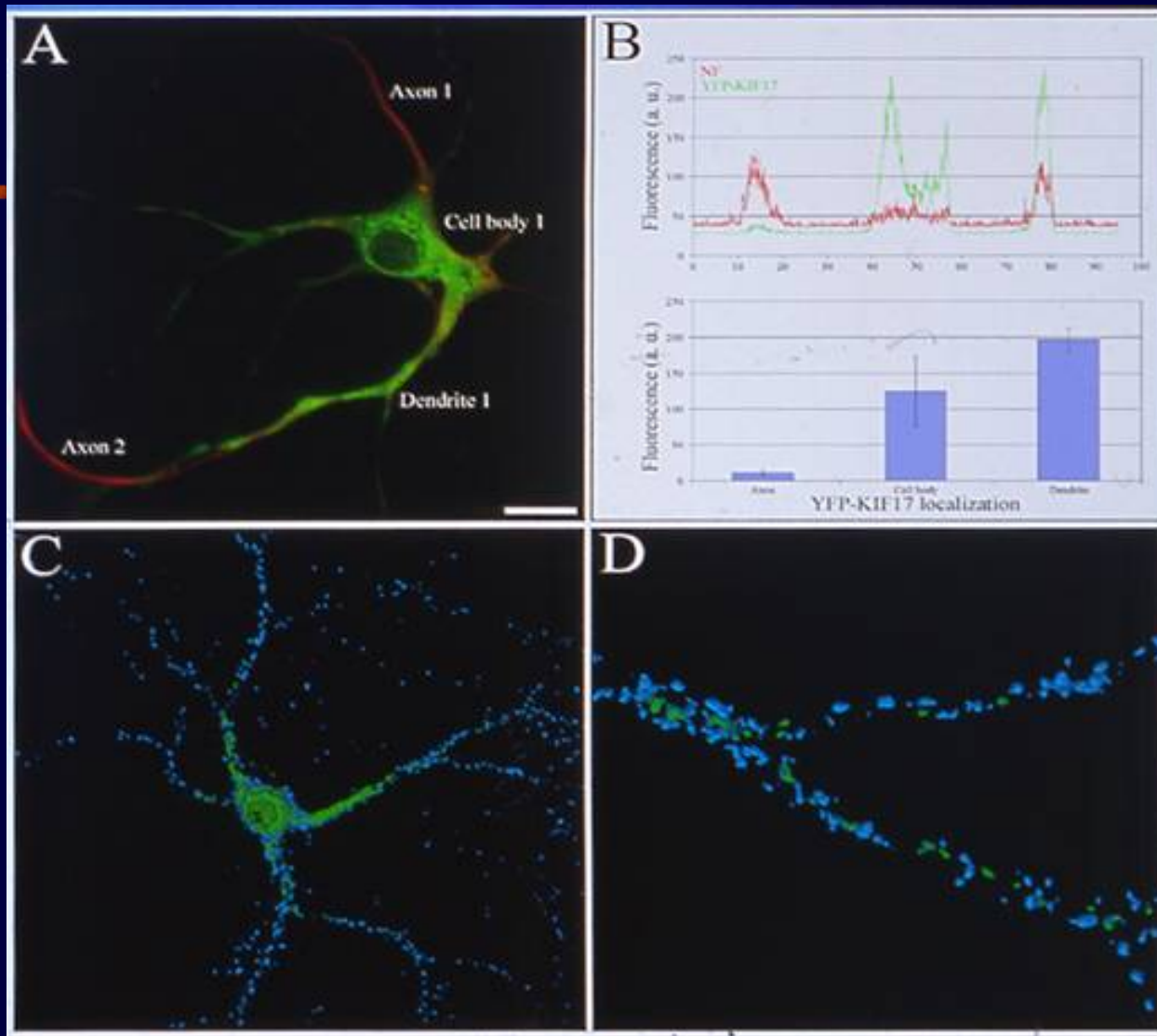
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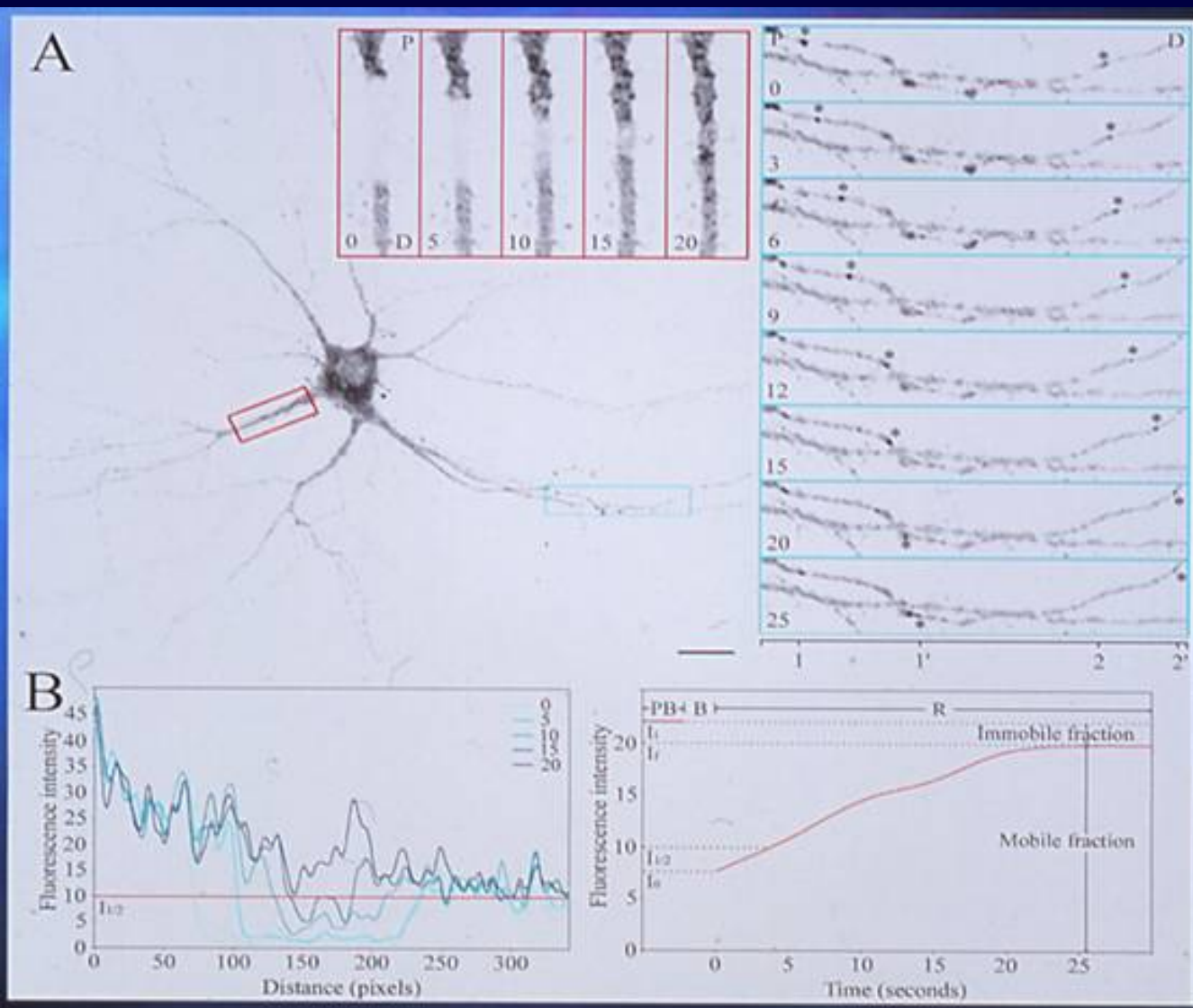


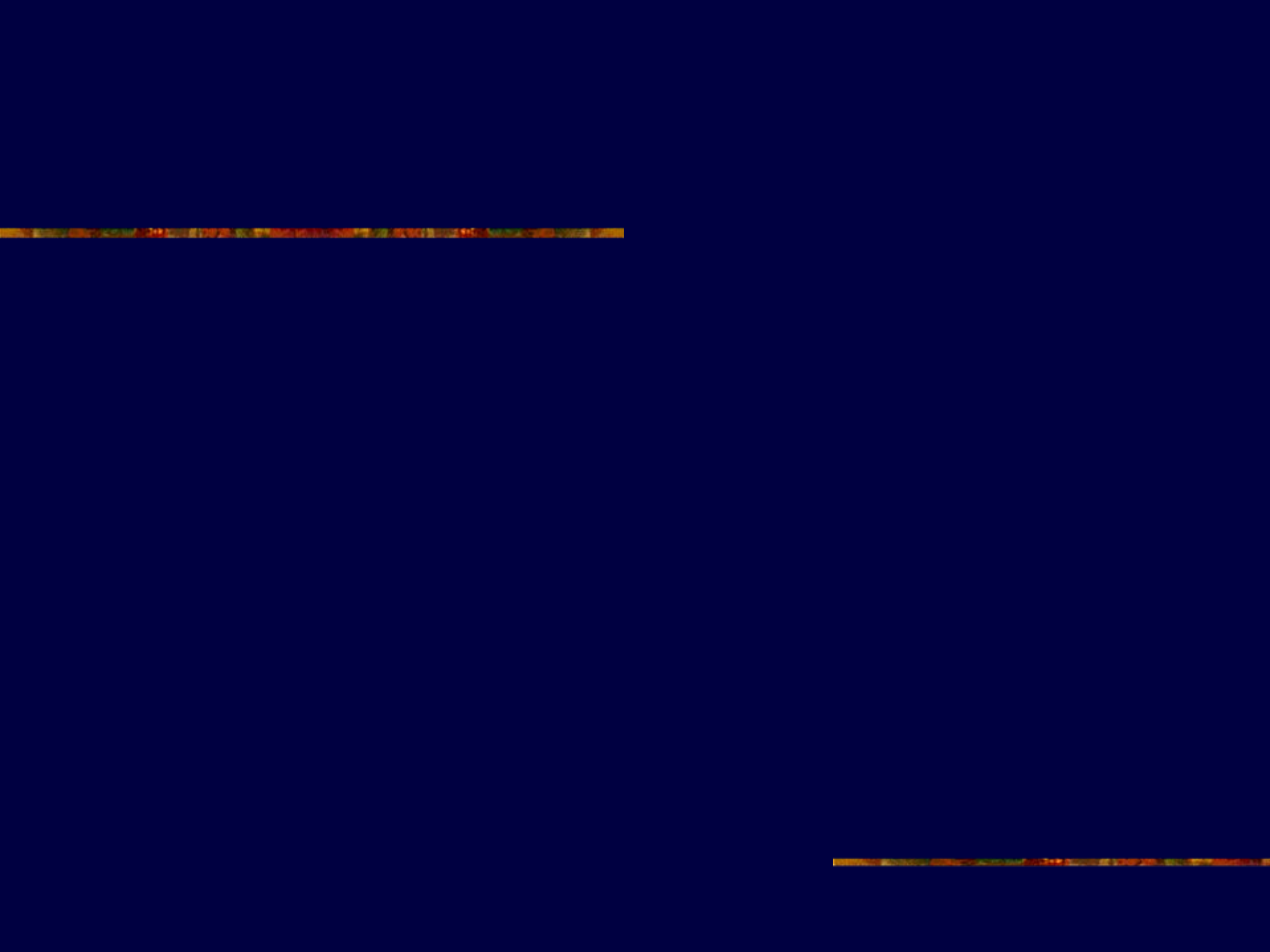


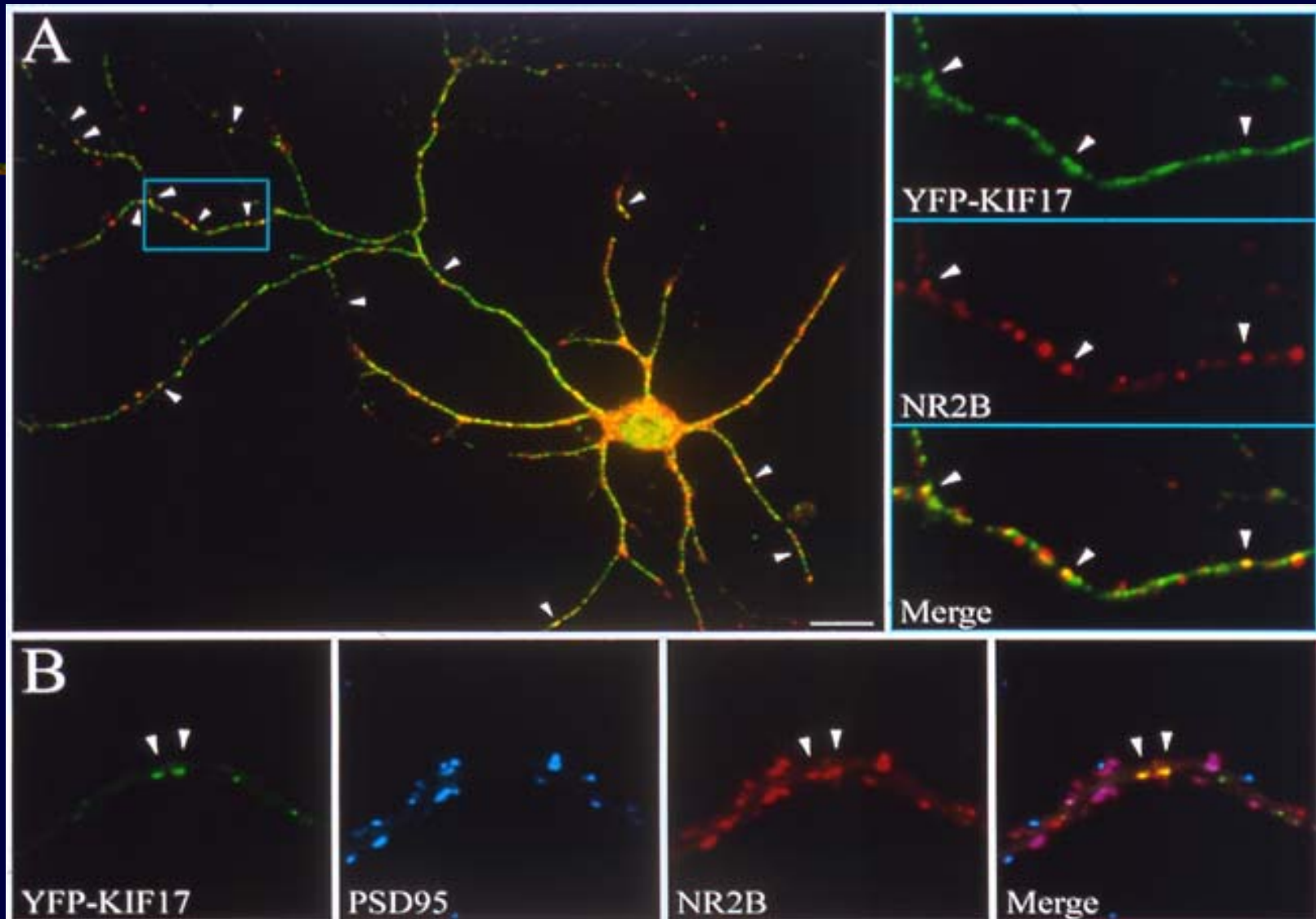


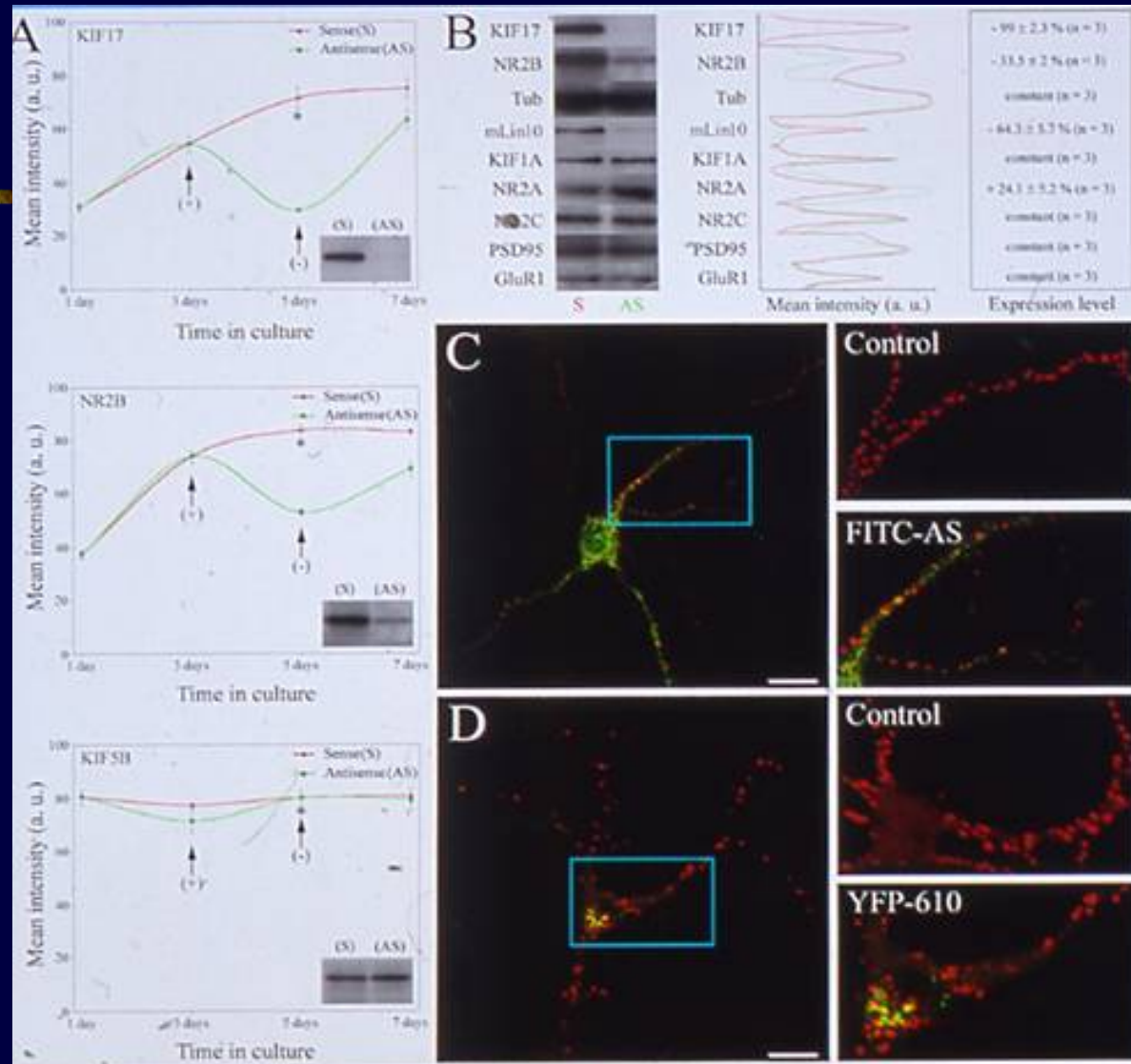


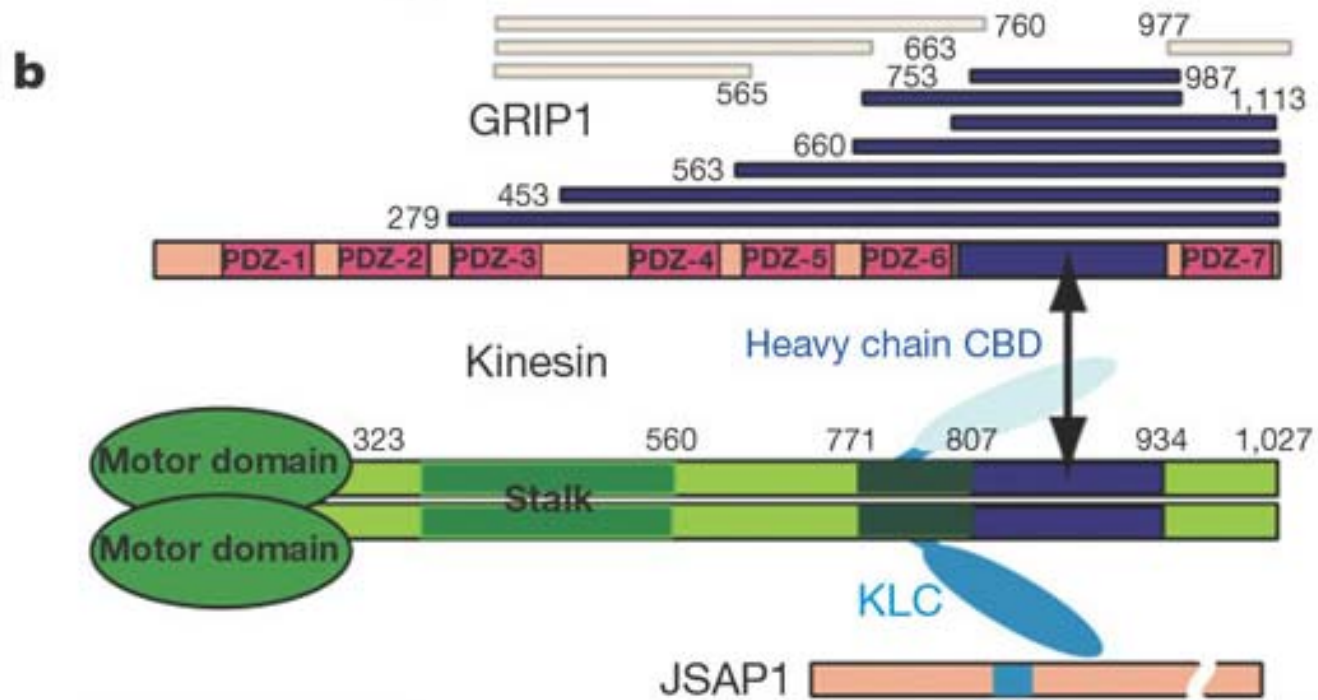
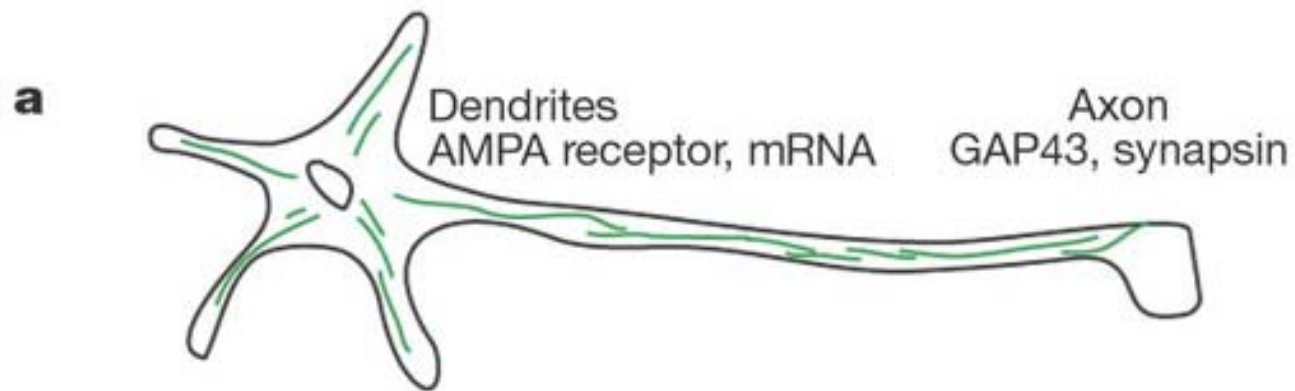


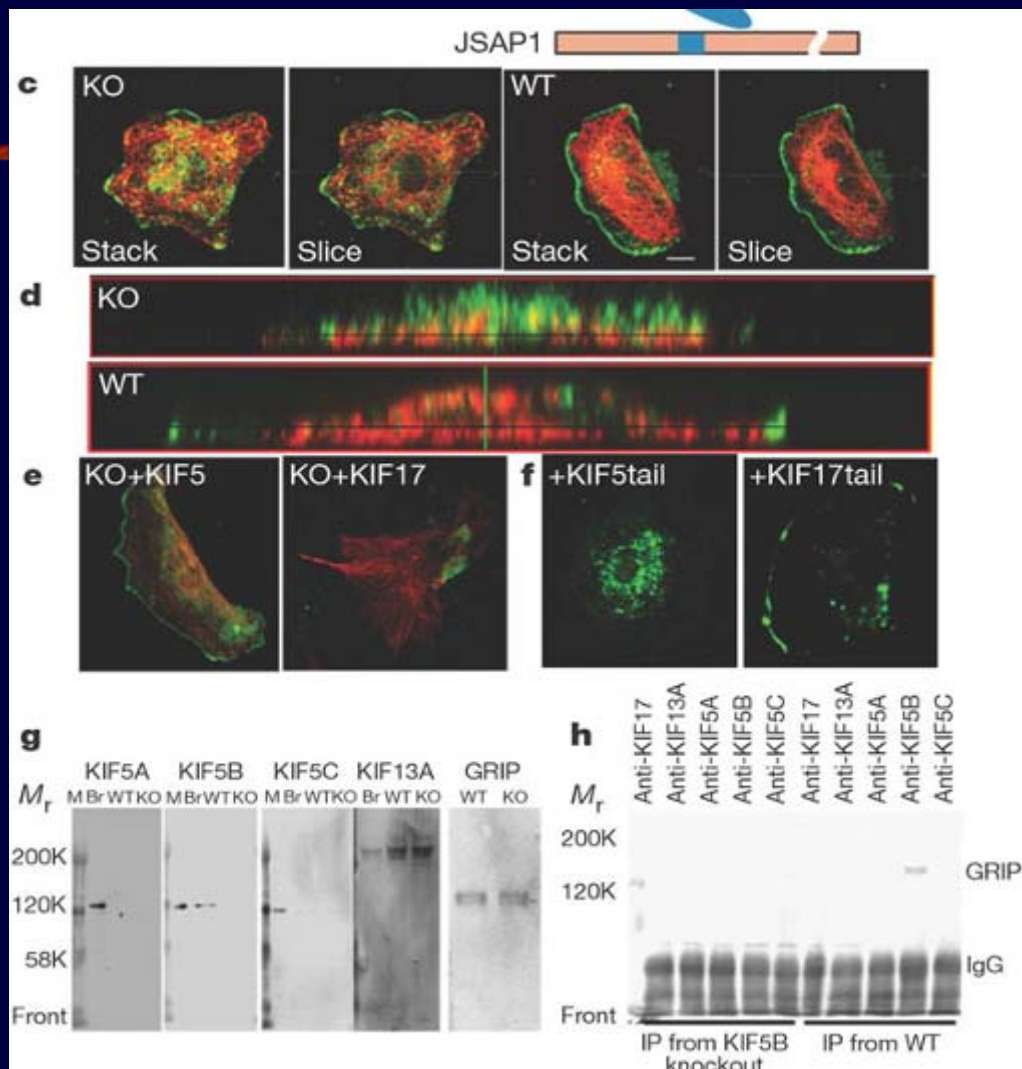


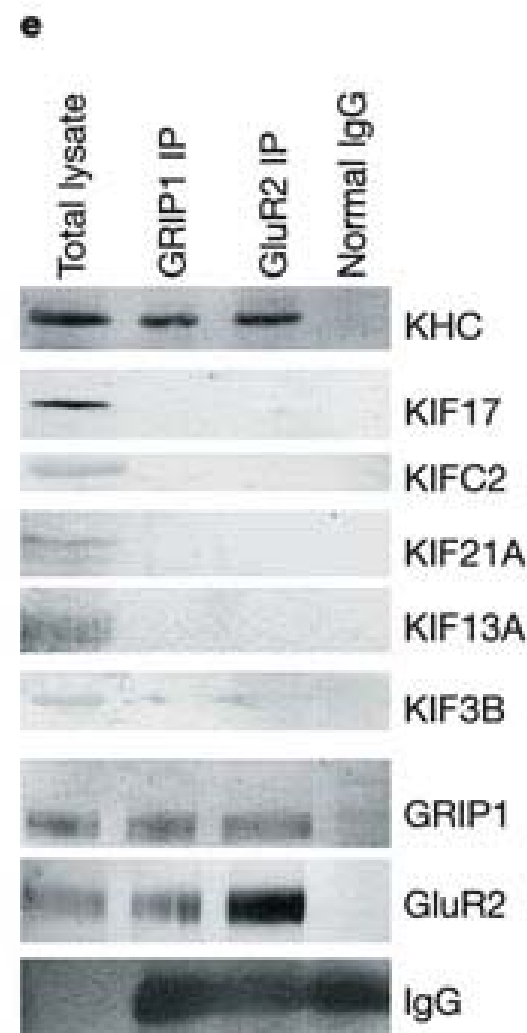
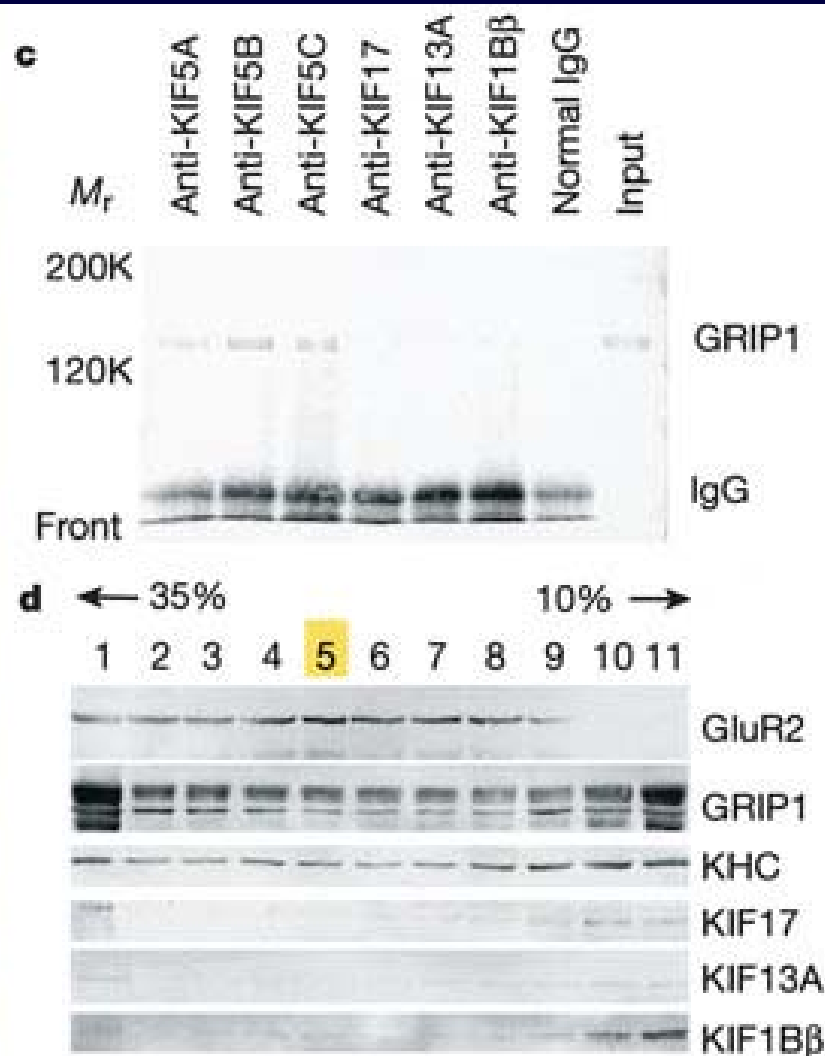
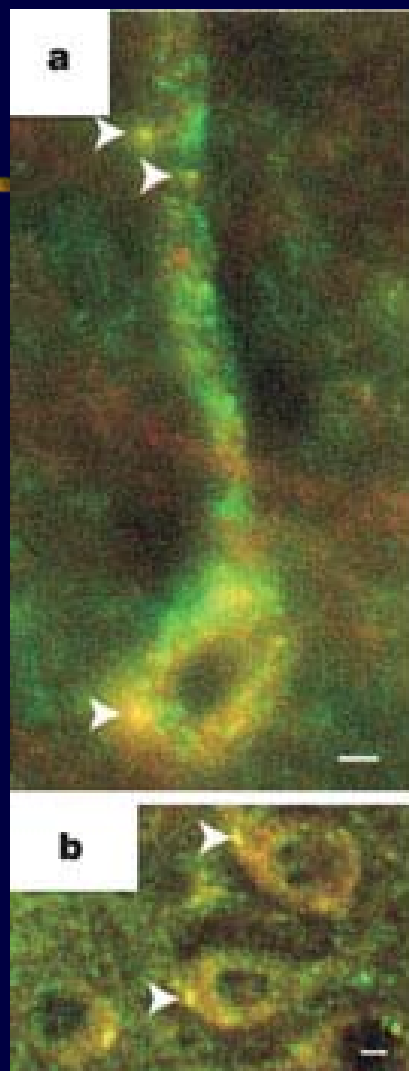


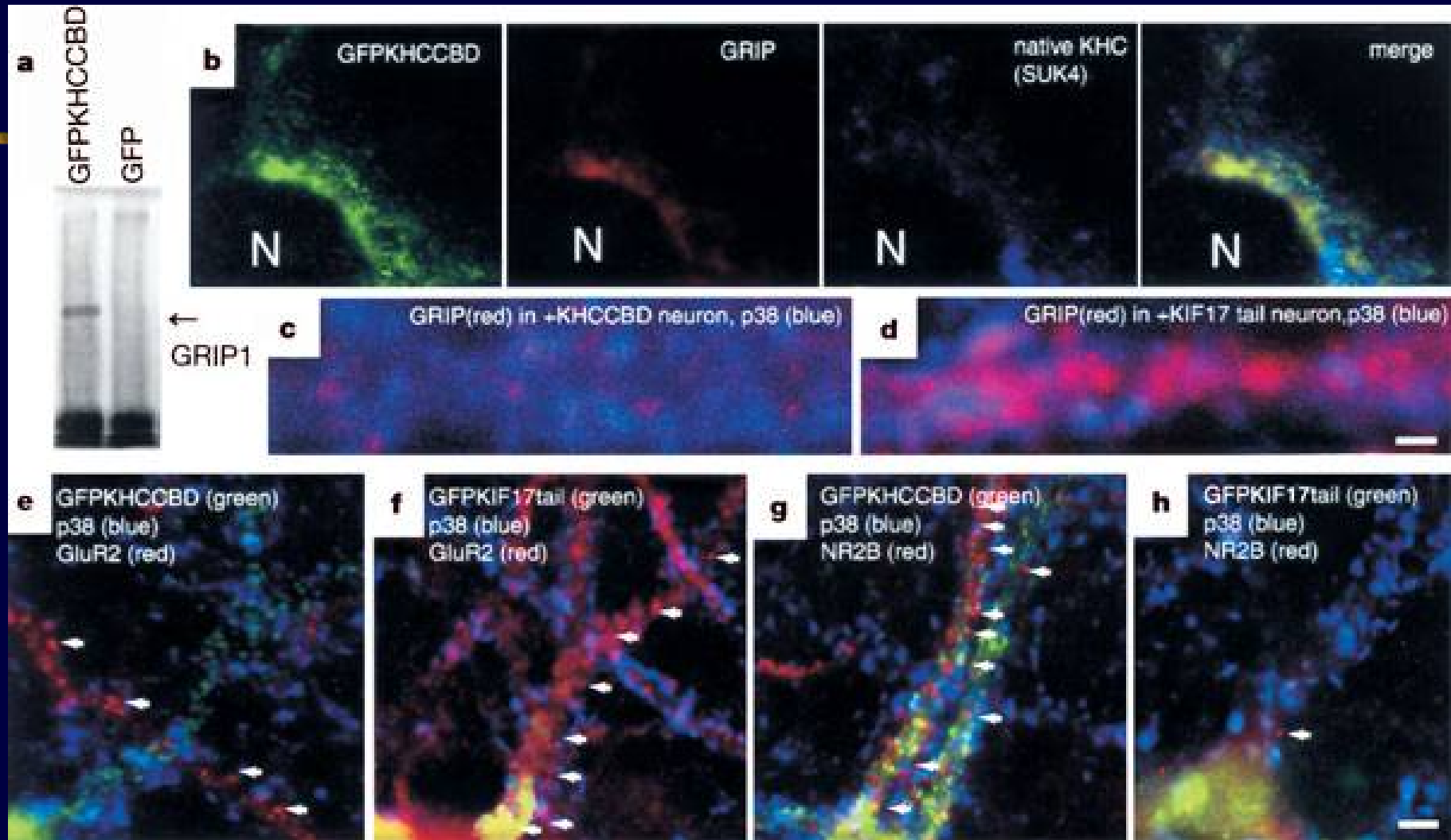


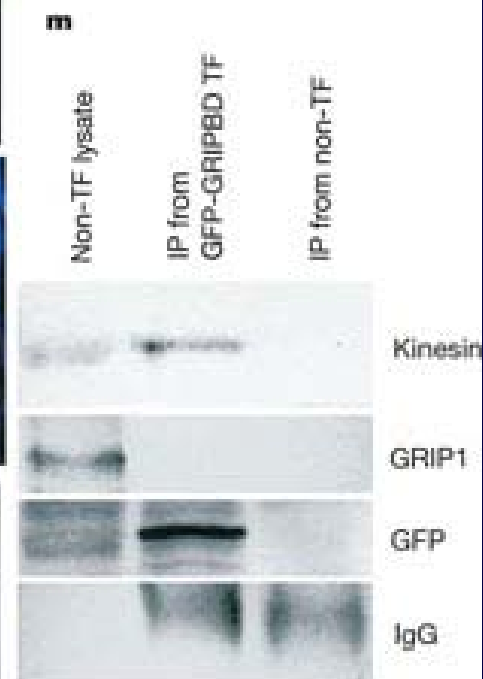
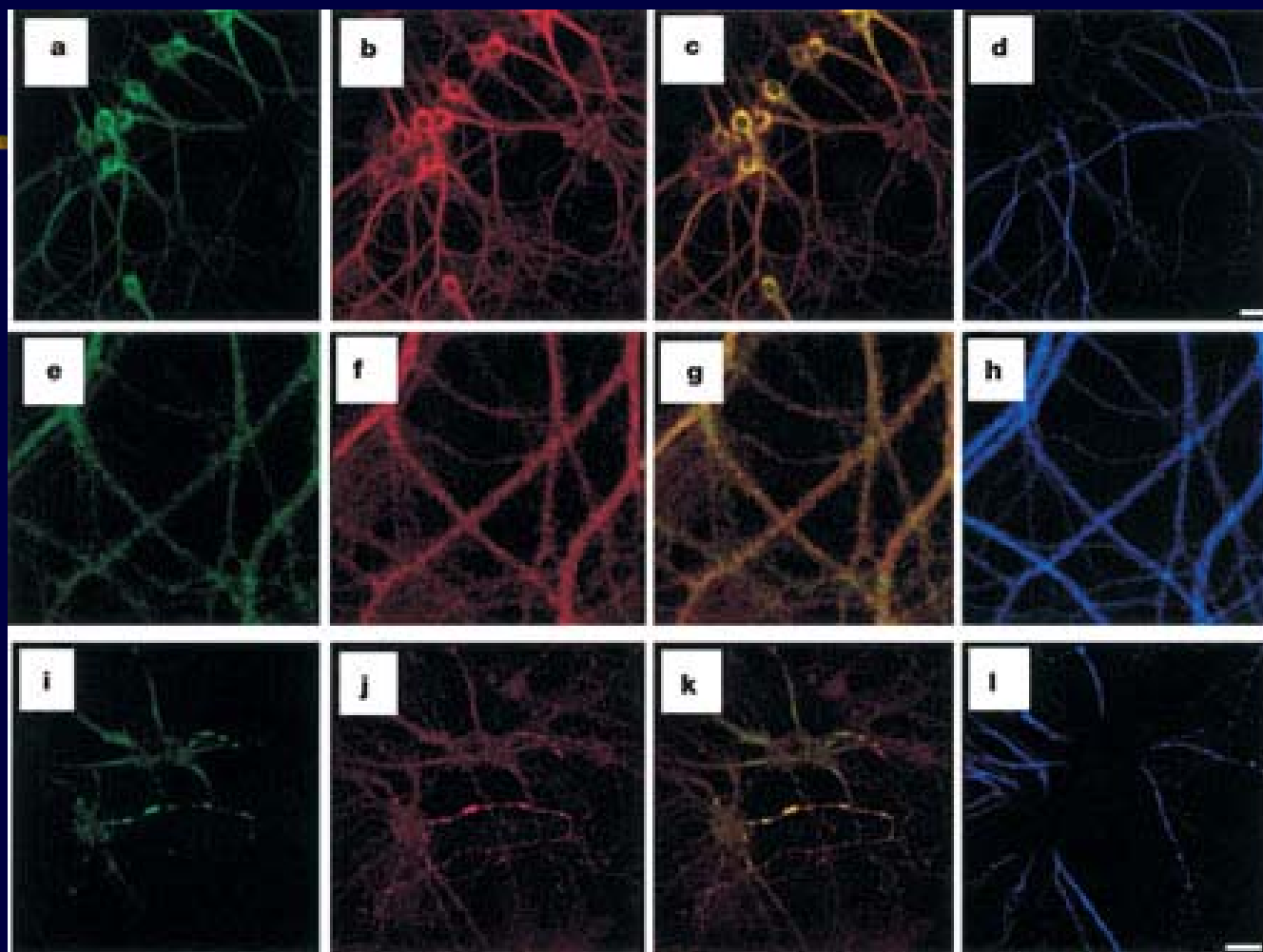












Vesicle

AMPA Receptor

Scaffolding

GluR2

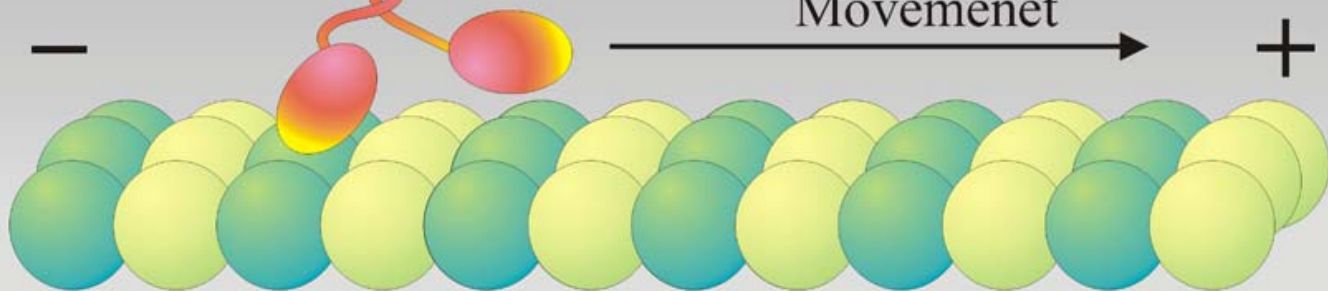
GRIP

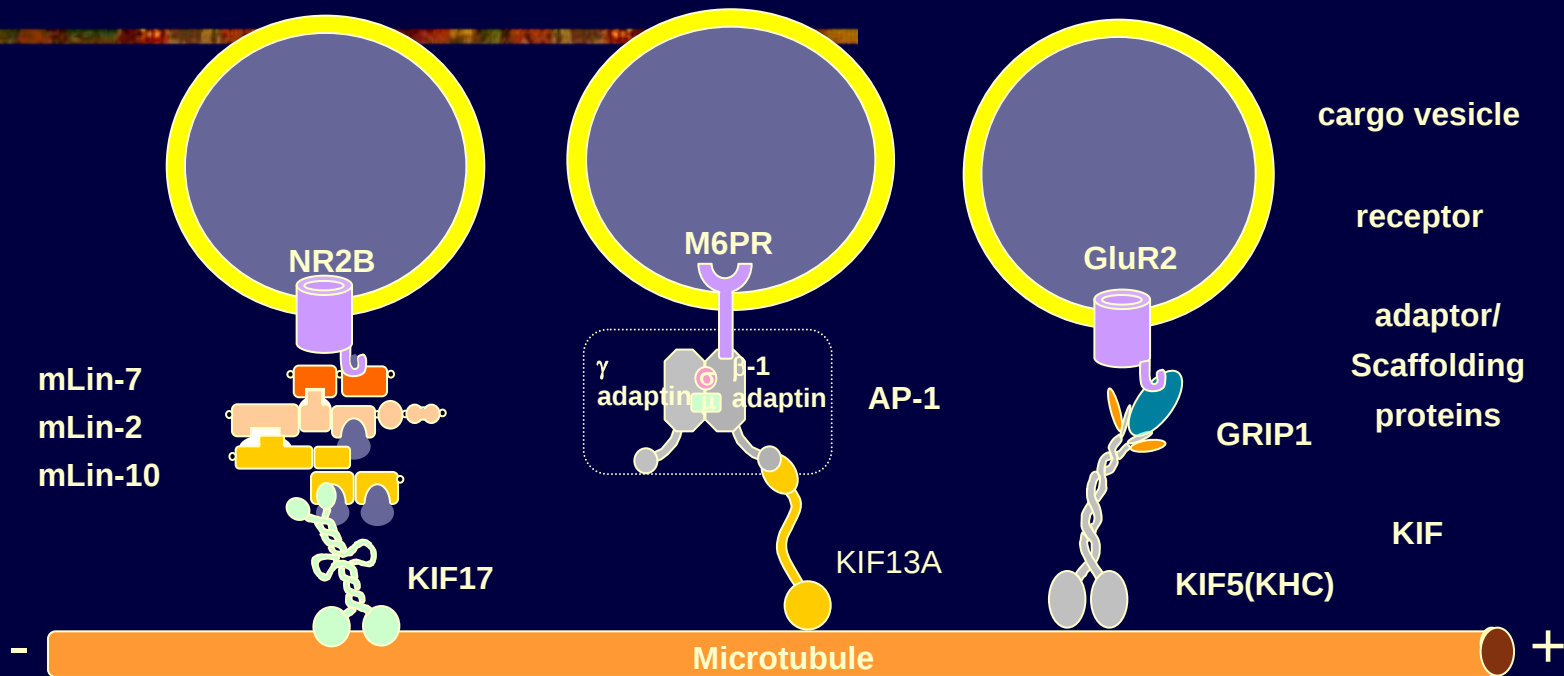
Kinesin

KIF5

Movement

MT



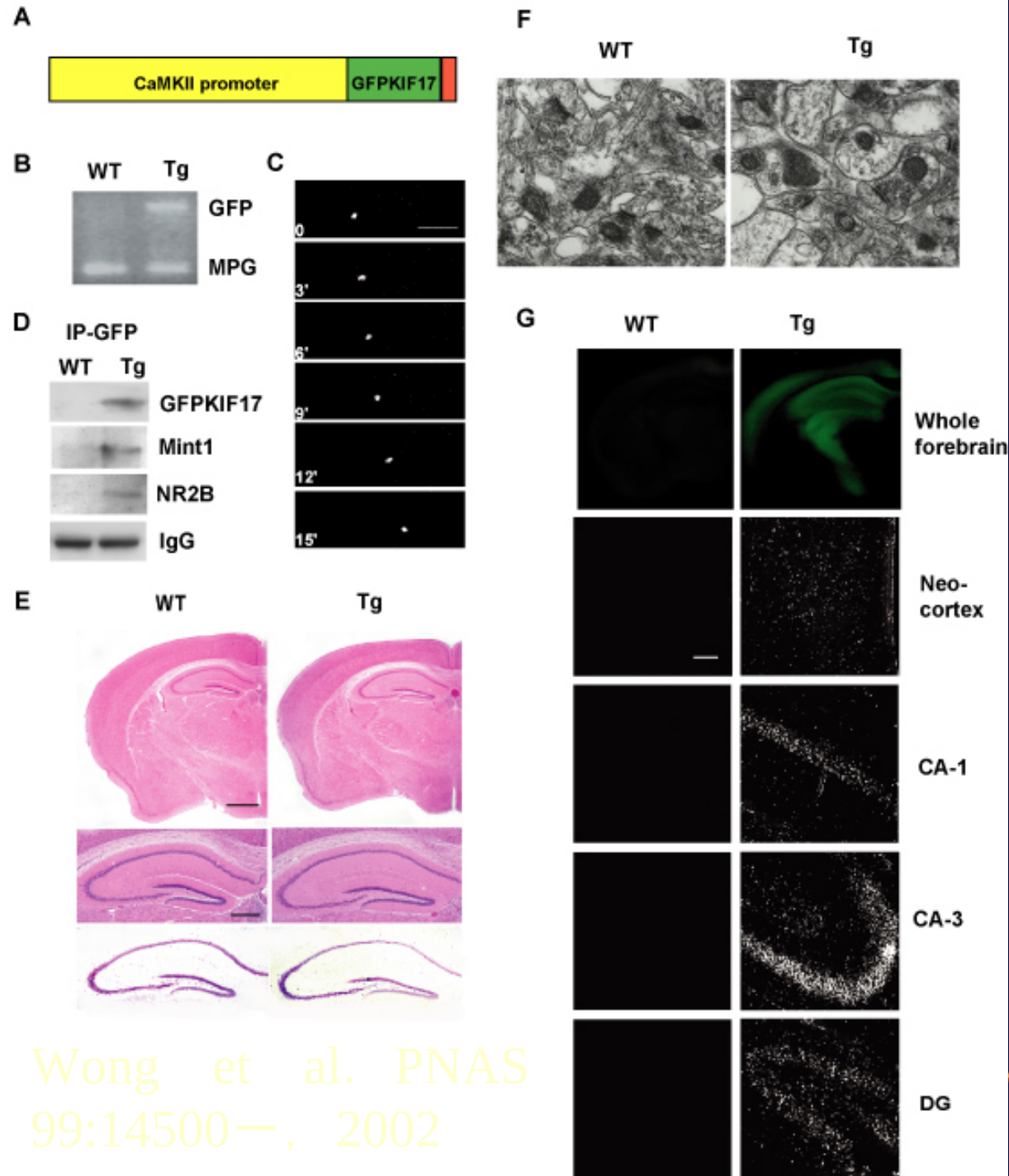


Setou et al. Science 288:1796—,2000

Nakagawa et al. Cell 103:569—,2000

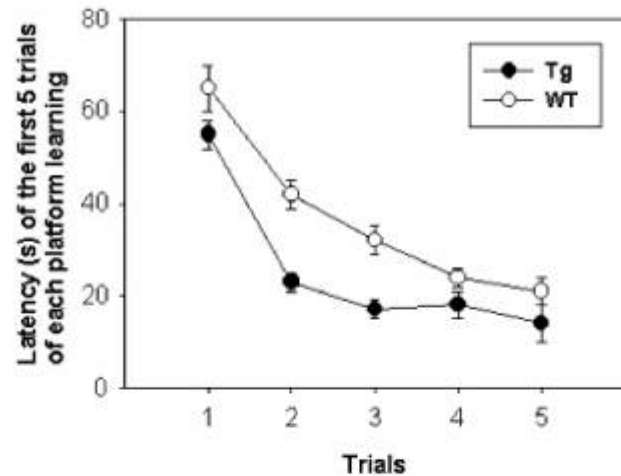
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Wong et al. PNAS 99:14500-2002

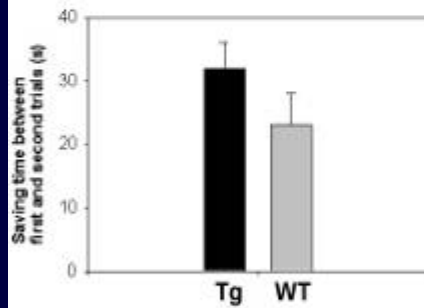


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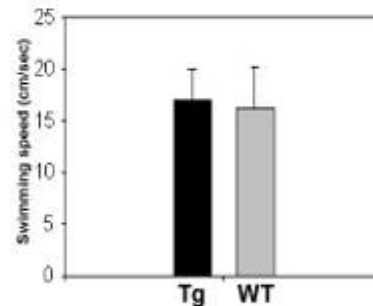
A Delay Matching-to-place test



B Saving time

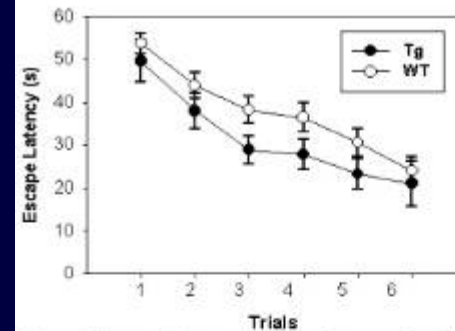


C Swimming speed

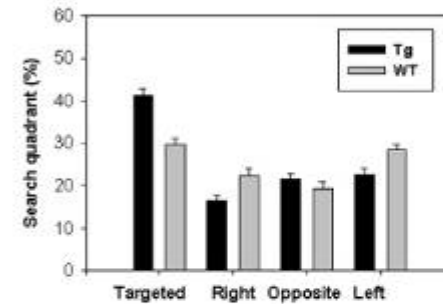


Working memory

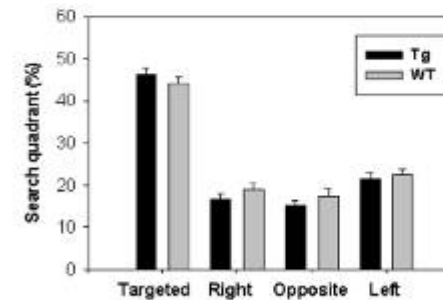
A Morris hidden platform water maze test



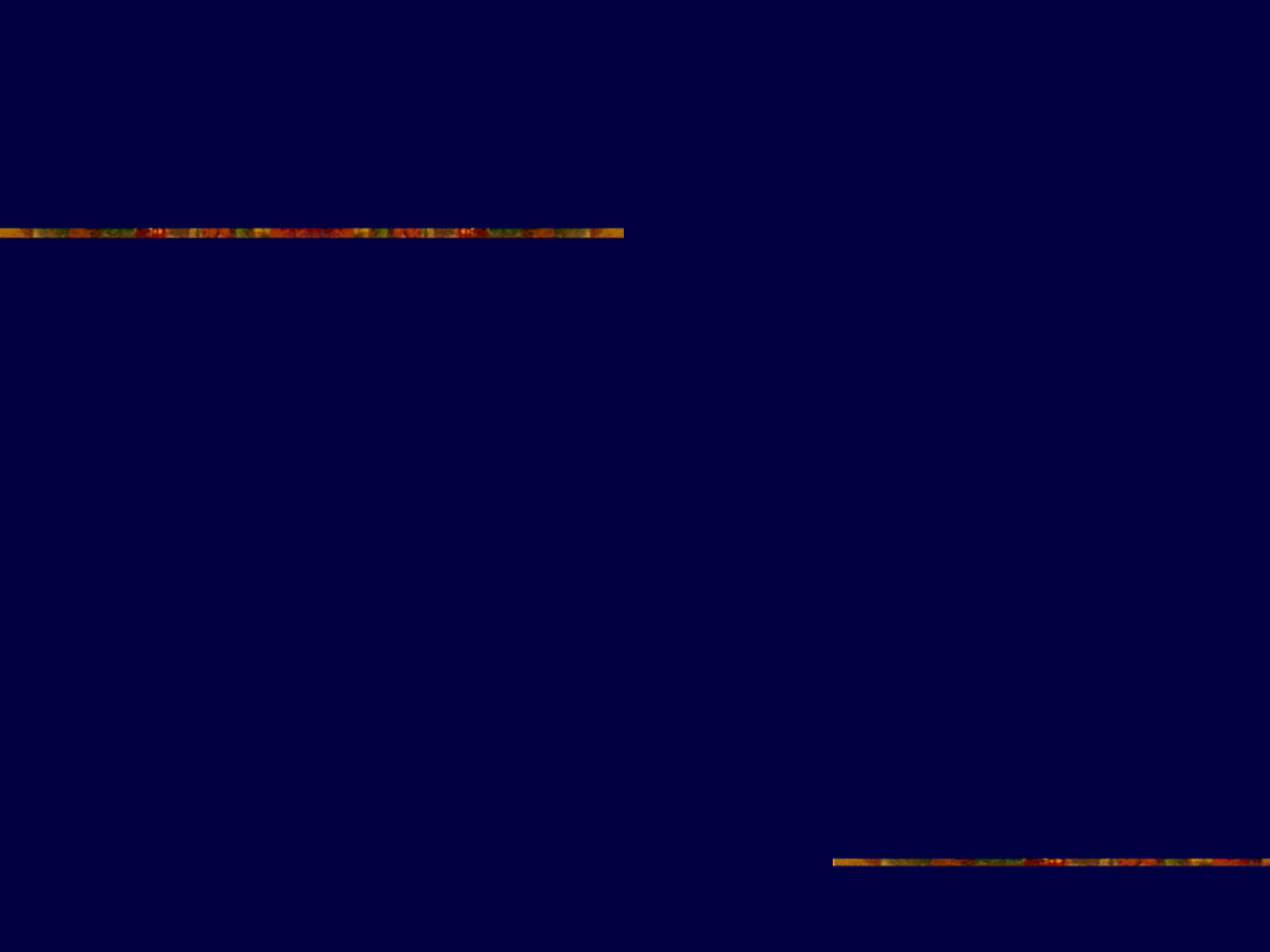
B Transfer test at the end of 3 trial

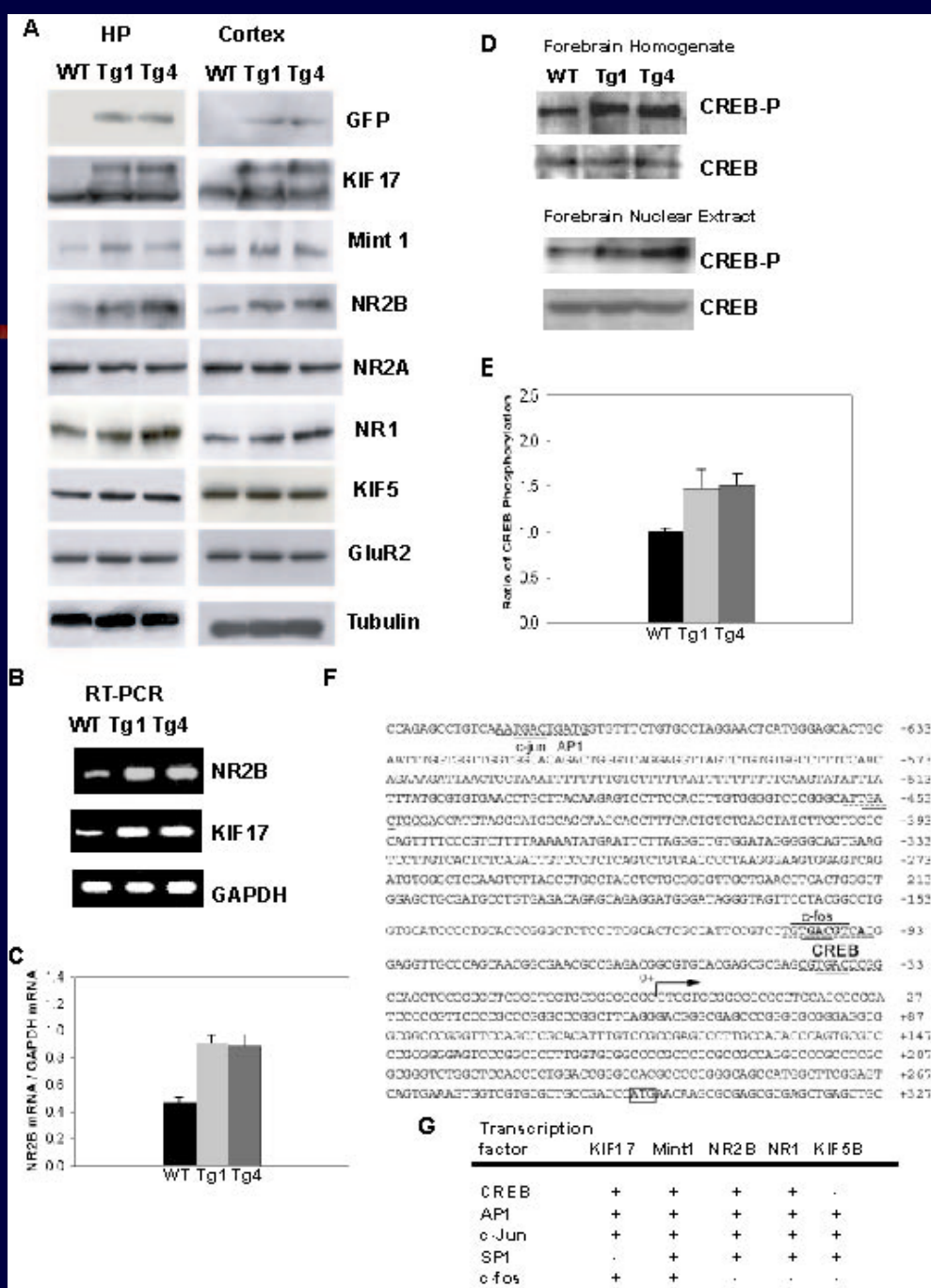


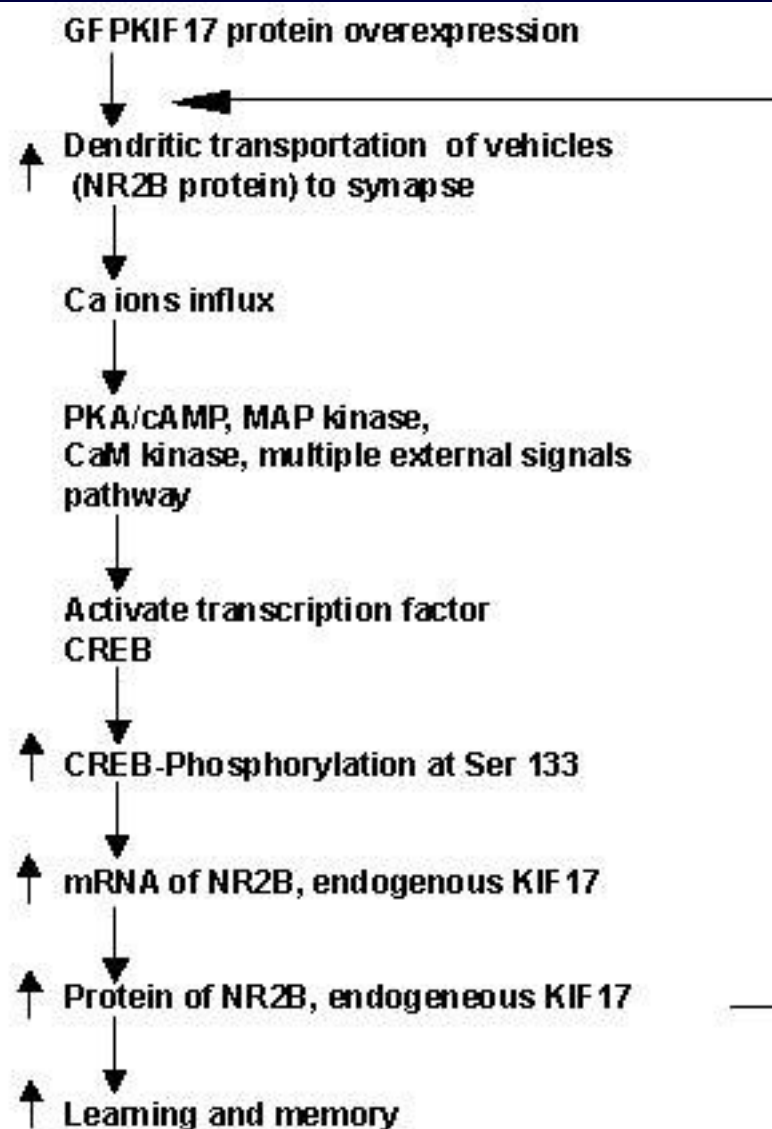
C Transfer test at the end of 6 trial



Spatial memory







Positive Feedback Loop