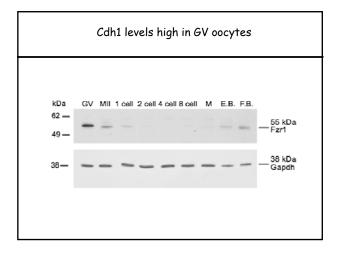


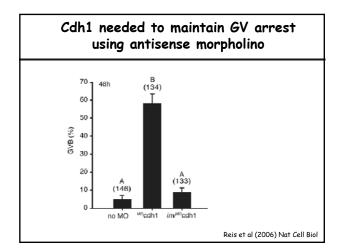
Cdh1 = co-activator of Anaphase-Promoting Complex/Cyclosome (APC) • Multimeric protein complex ~15 subunits • E3 ubiquitin ligase • Essential for M-phase, substrates cyclin B1 and securin • Many other substrates

•Many other substrates •Substrates degraded at different times •Activity regulated by WD40 proteins <u>CDH1</u> and <u>CDC20</u>

Pines (2011) Nat Rev Mol Cell Biol









Cdh1 knockout is embryonic lethal

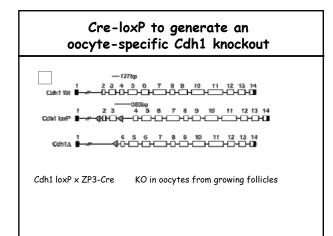
Genomic stability and tumour suppression by the APC/C cofactor Cdh1

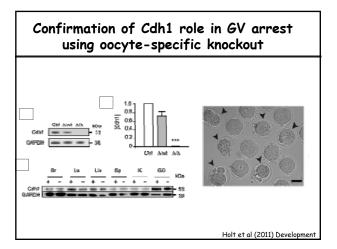
Irene García-Higuera^{1,3}, Eusebio Manchado', Pierre Dubus', Marta Cañamero', Juan Méndez', Sergio Moreno²⁴ and Marcov Malumbres^{1,4}

The anaphase prenoting complex or cyclesome UAPCCD is a departing protein ligate that, together with C4C20 or C4b1, targets coll-cycle proteins the degradation, APCC-GAD as of charly promotes protein degradation in the mitted and C3. Match analysis a kink (20) Lot el. 45.5-CED as a departed in the analogical circuit of updated in an analysis many a kink (20) Lot el. 45.5-CED as approach in the placema. C4b1-cAffacter colls profile circuit any departed in antimark and shared informational devaluations, individing dim (2014) controllates the line matcheser of provide Lot and the constraint which and the annexes and devaluations, individing dim (2014) controllates the line matcheser or graves is used and constraint which are provide the terms of the devalues of the C4D1 controllates the line matcheser or graves is used and constraint devaluation of the constraint devalues. These match (2014) controllates the line matcheser or graves is used and constraint and shared the constraint devalues and the constraint devalues and the linear constraint devalues and devalues and devalues that the constraint of the constraint with homesed politication of set to remove and system. These results indicate that C4D1 is completed for generating unscheduled politication of set constraint advantages and protecting manufactures instability.

Received 4 March 2008; accepted 24 April 2008; published online 15 June 2008; DOI: 10.1038/uch1742

NATURE CELL BOLD CY ADVANCE ONLINE PUBLICATION





Why is Cdh1 important in GV arrest?

APC^{cdh1} maintains cyclin B1 levels low Keeps Cdk1 activity low

в 5-4-3-

(Cyclin 22

Holt et al (2011) Development

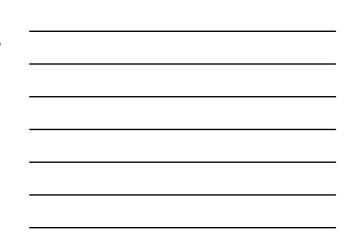
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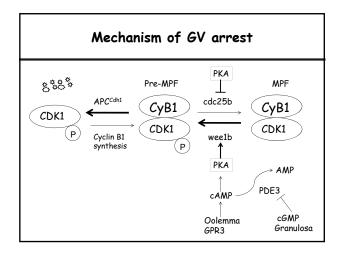
Cirl

Cyclin B1

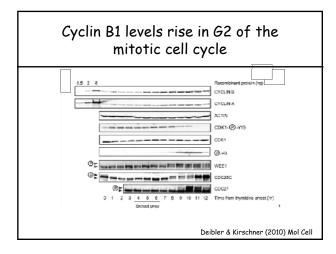
Securin GAPDH A/A HD: B11

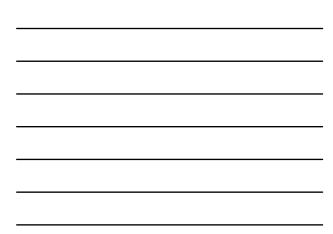
- 51

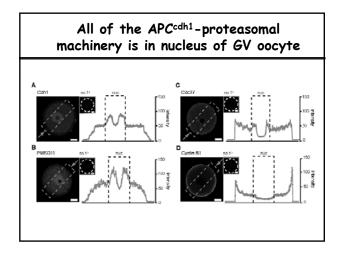




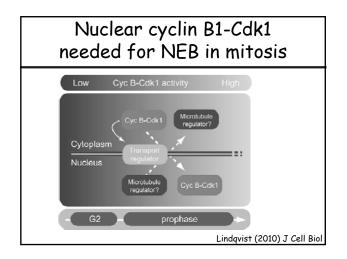




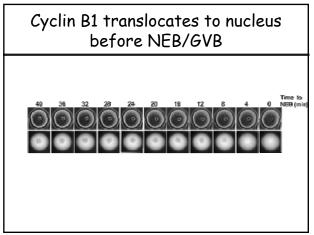




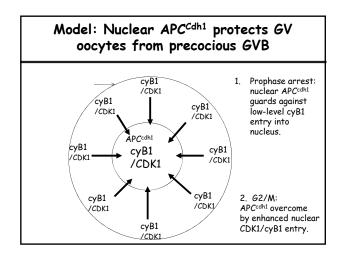




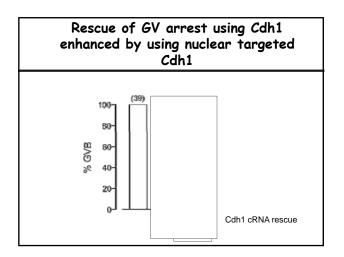


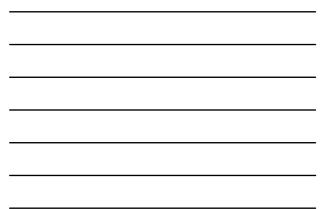


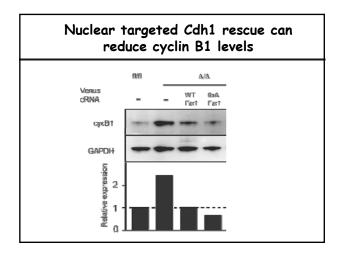




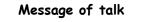












- 1. Cdh1 cyclin B1 GV arrest
- 2.Cdh1 -control of meiosis ${\ensuremath{\mathbb I}}$
- 3.Cdh1 follicle endowment

