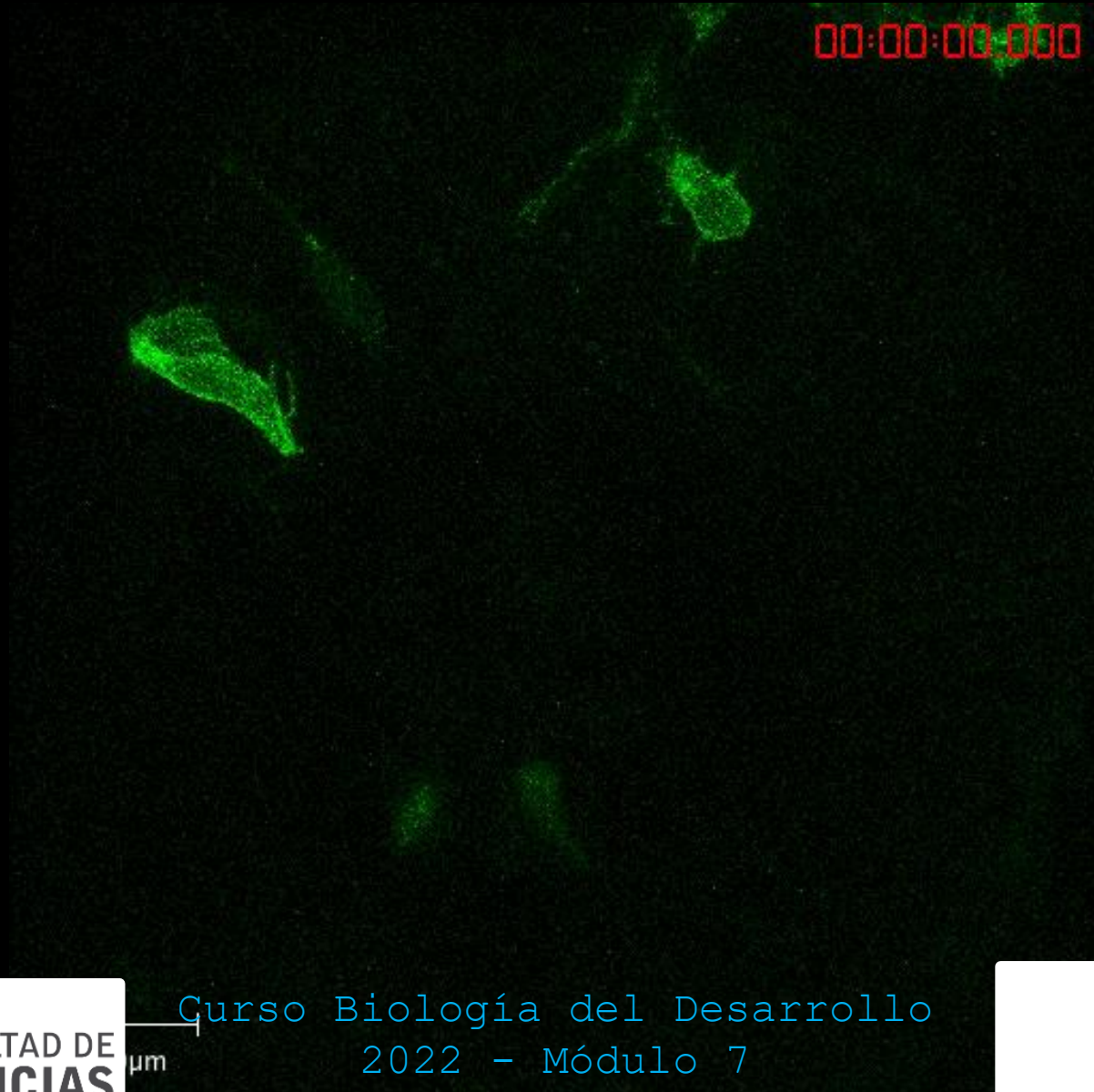


Desarrollo neural: Neurogénesis

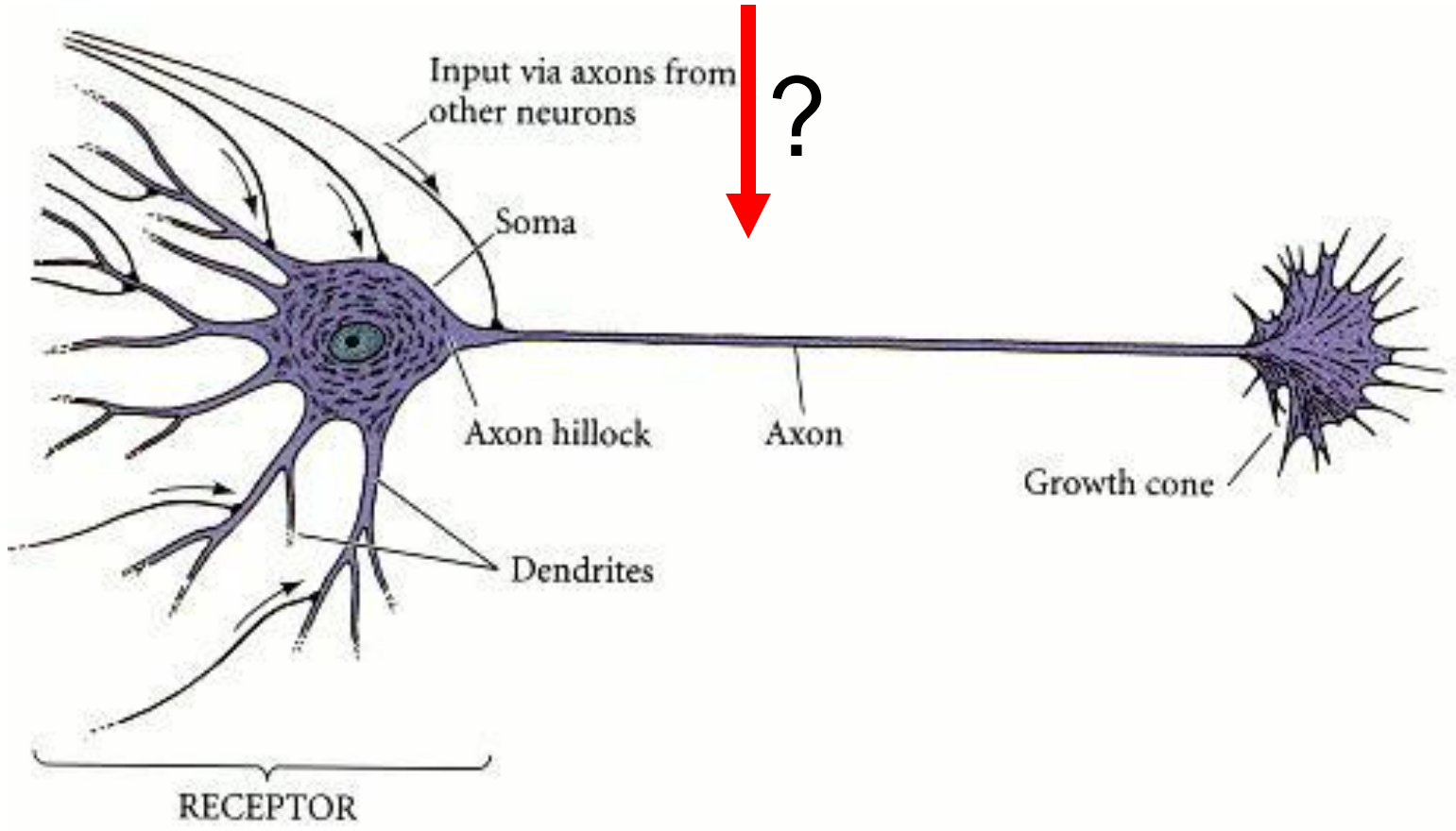
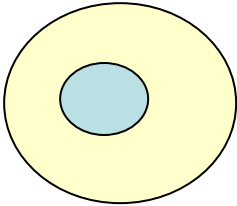


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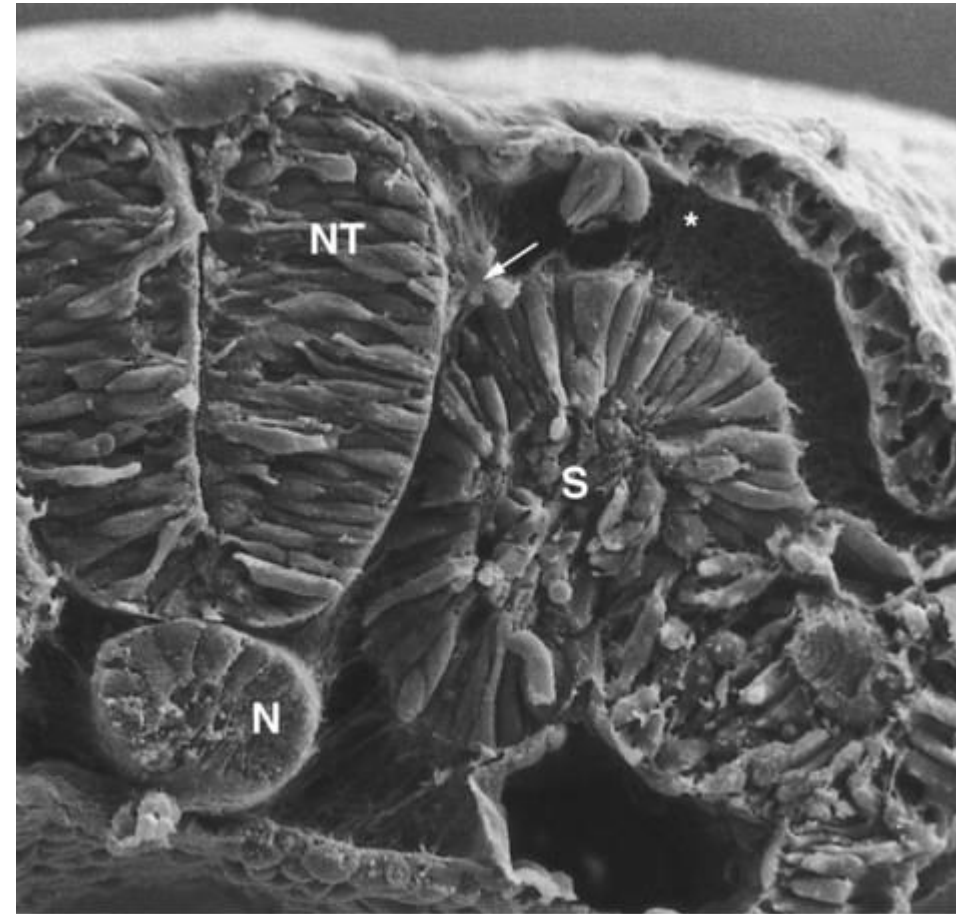
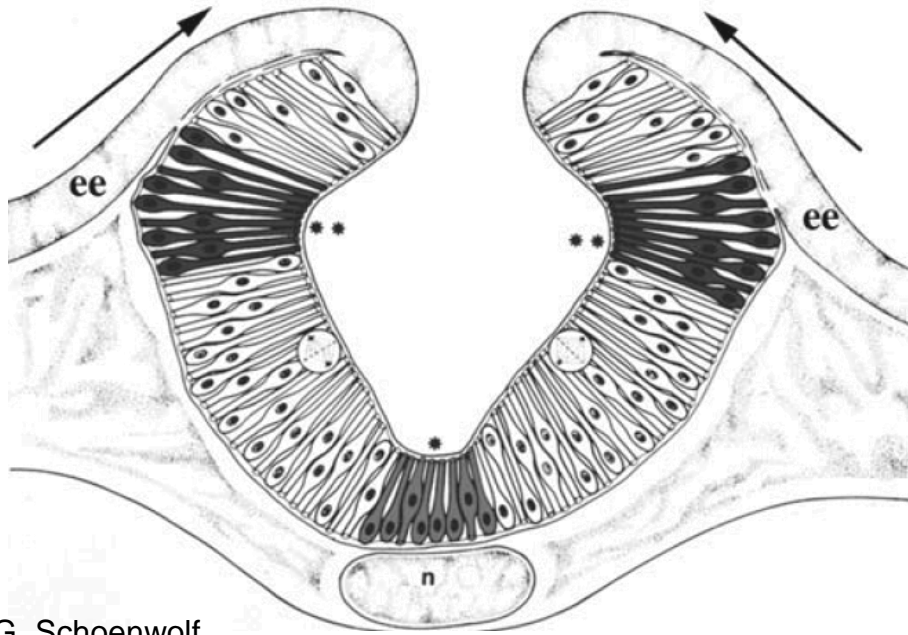


Curso Biología del Desarrollo
2022 - Módulo 7
Flavio Zolessi
fzolessi@fcien.edu.uy



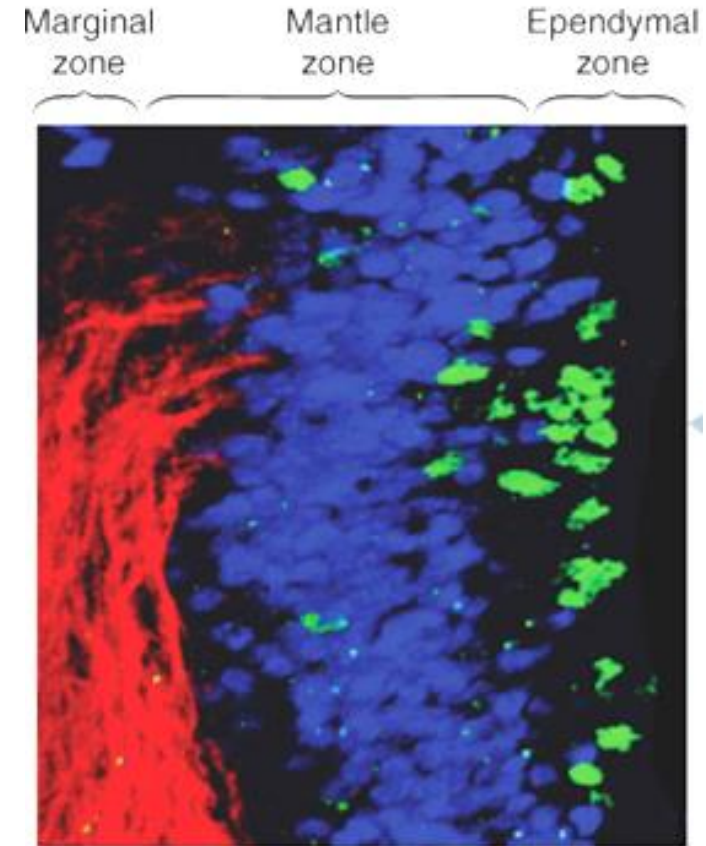
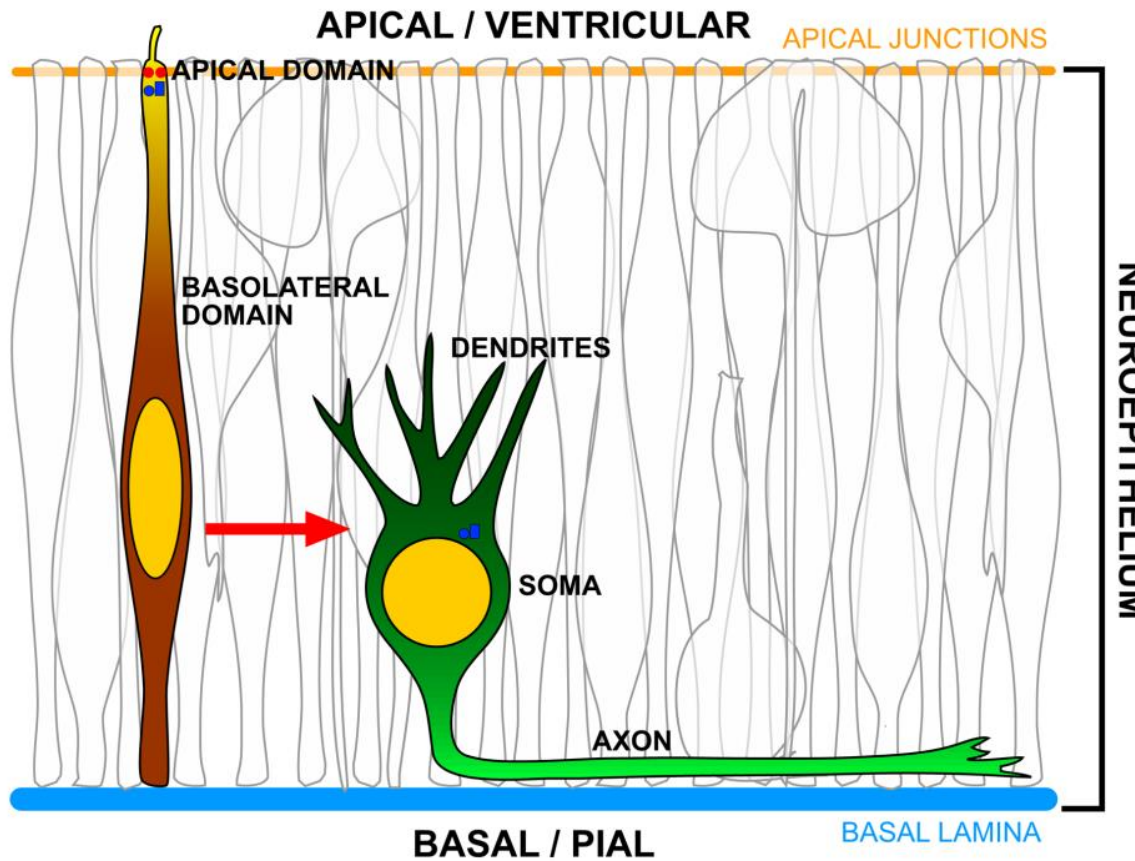


El neuroepitelio y la neurogénesis



G. Schoenwolf

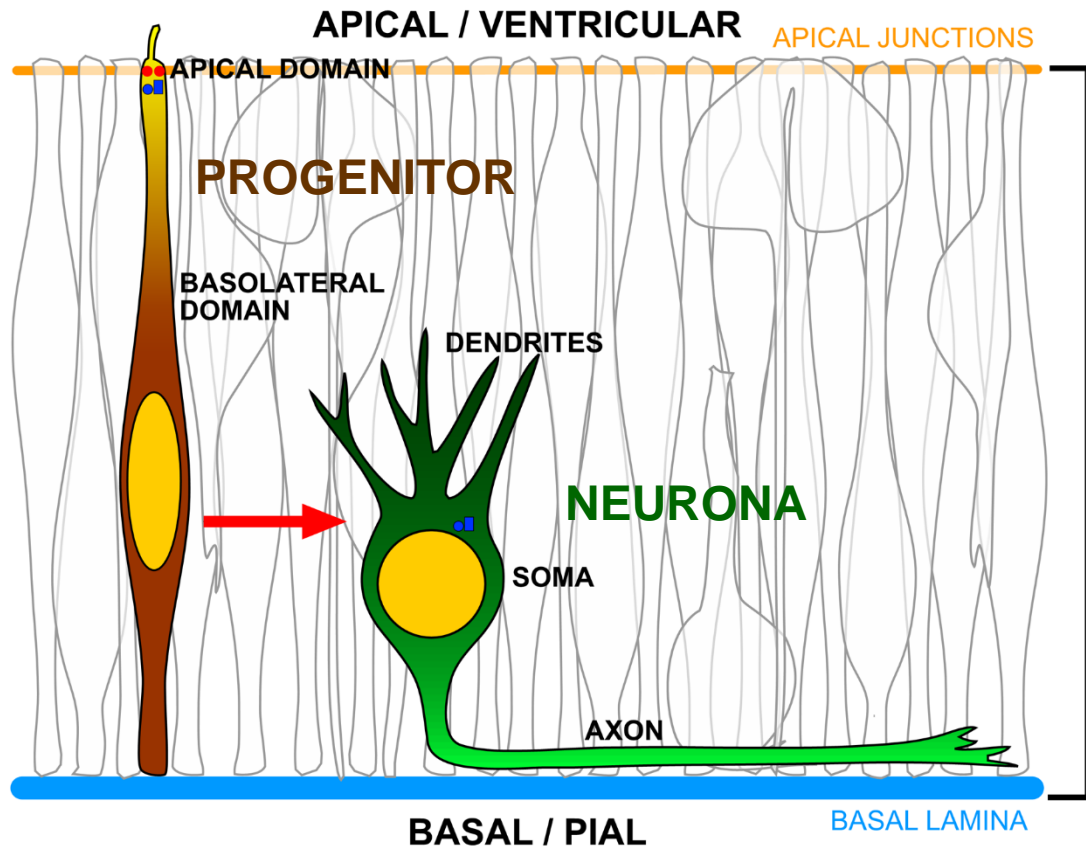
El neuroepitelio y la neurogénesis



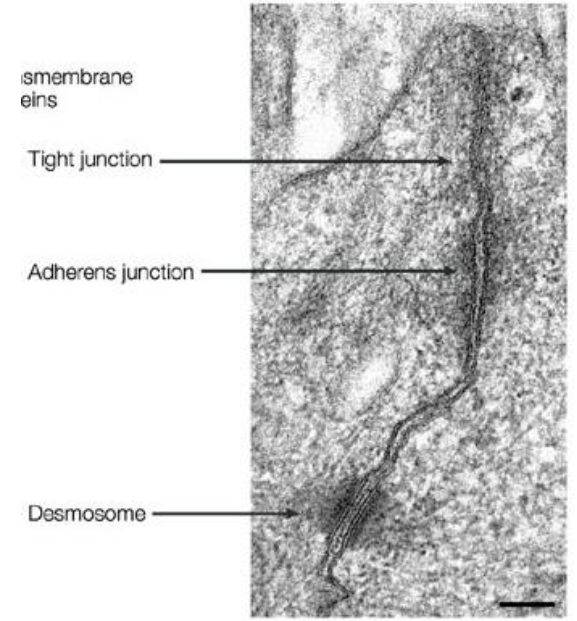
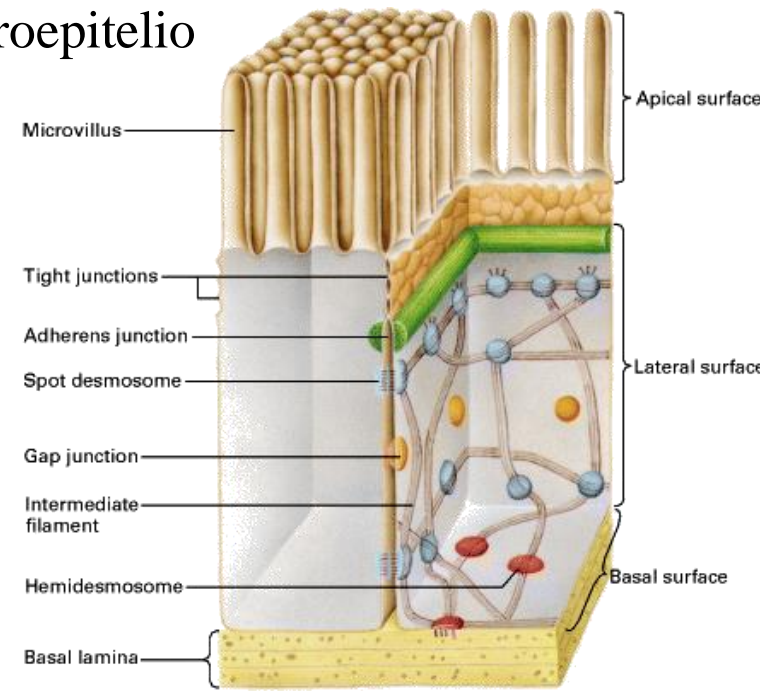
P-H3
BrdU
NF

Polaridad celular en el neuroepitelio

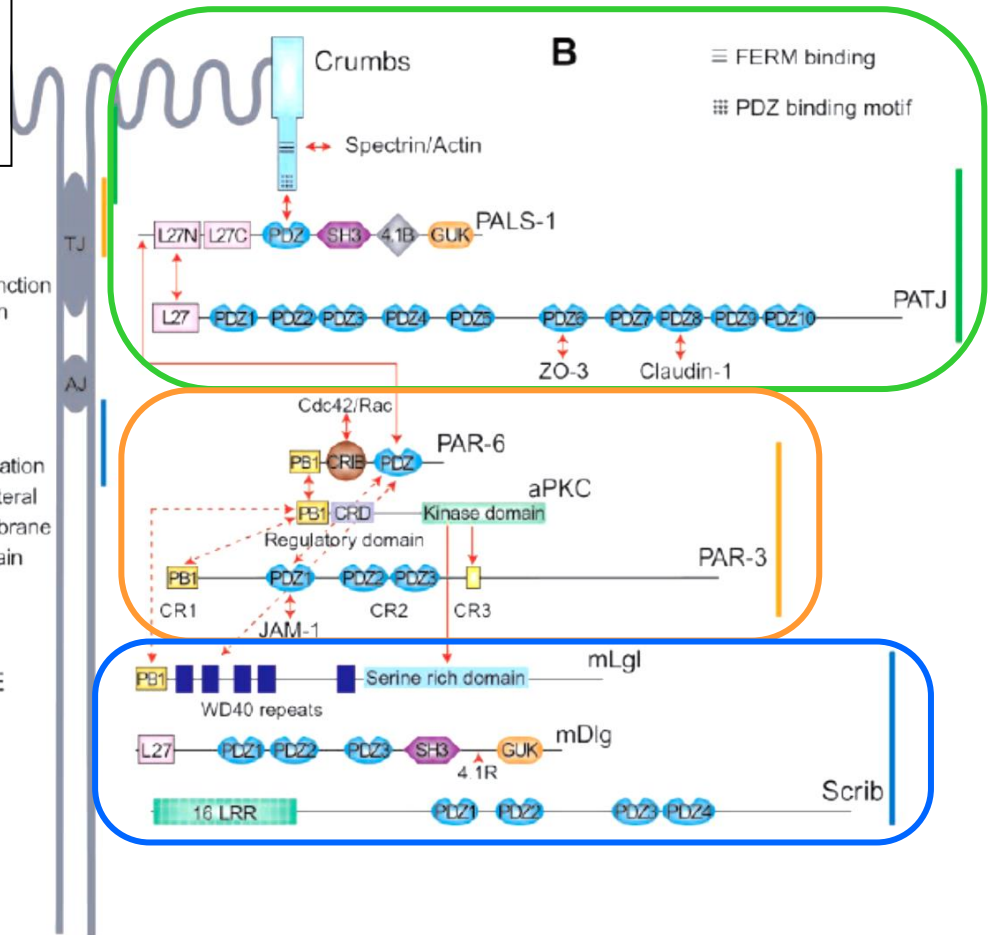
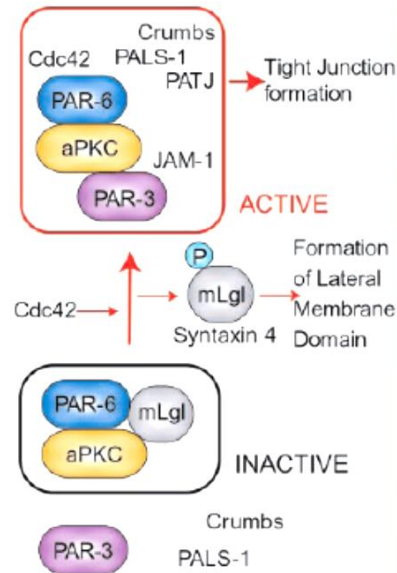
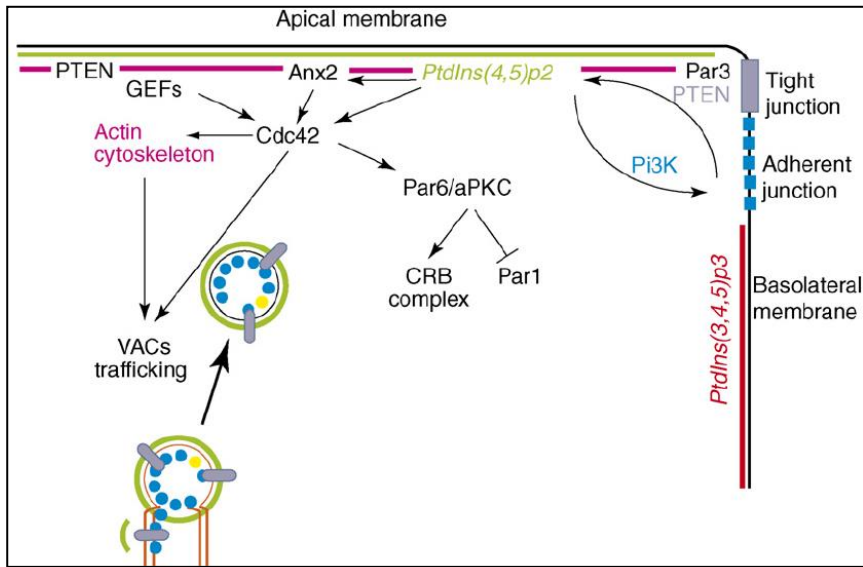
- APICAL COMPLEX PROTEINS
- CENTROSOME



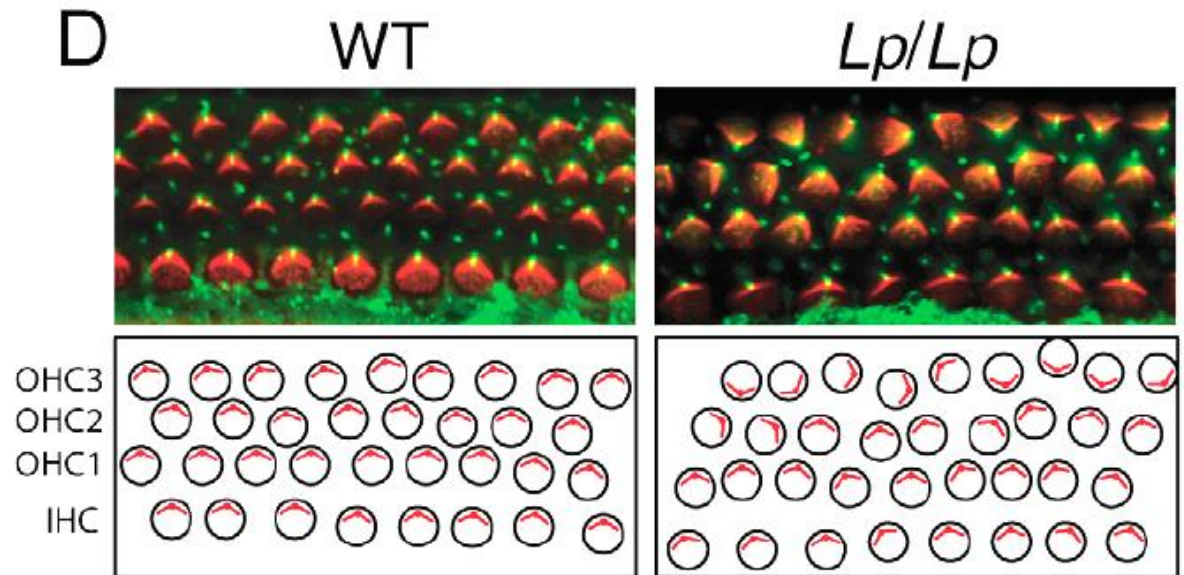
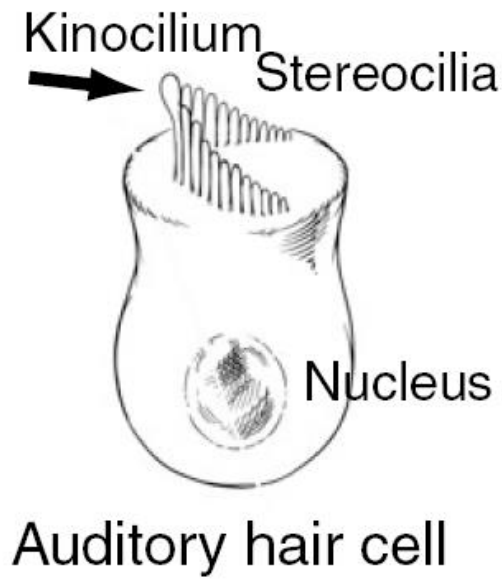
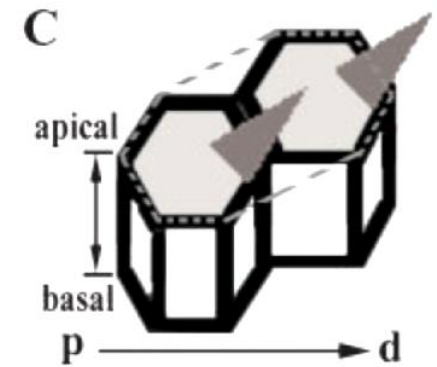
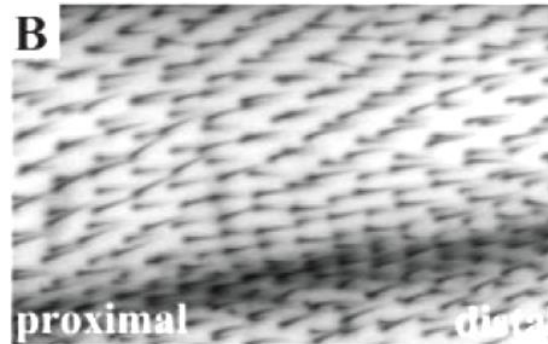
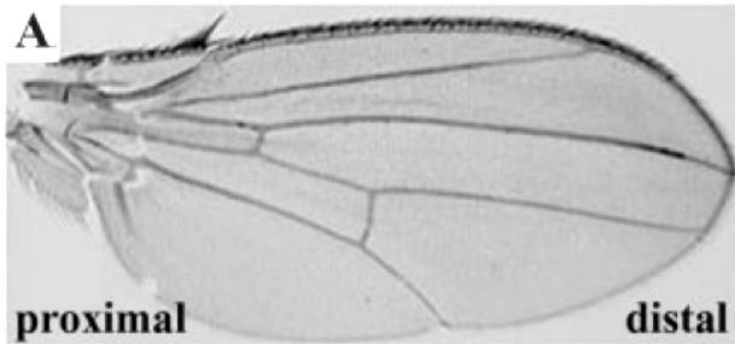
NEUROEPITHELIUM



Polaridad de células epiteliales: polaridad ápico-basal

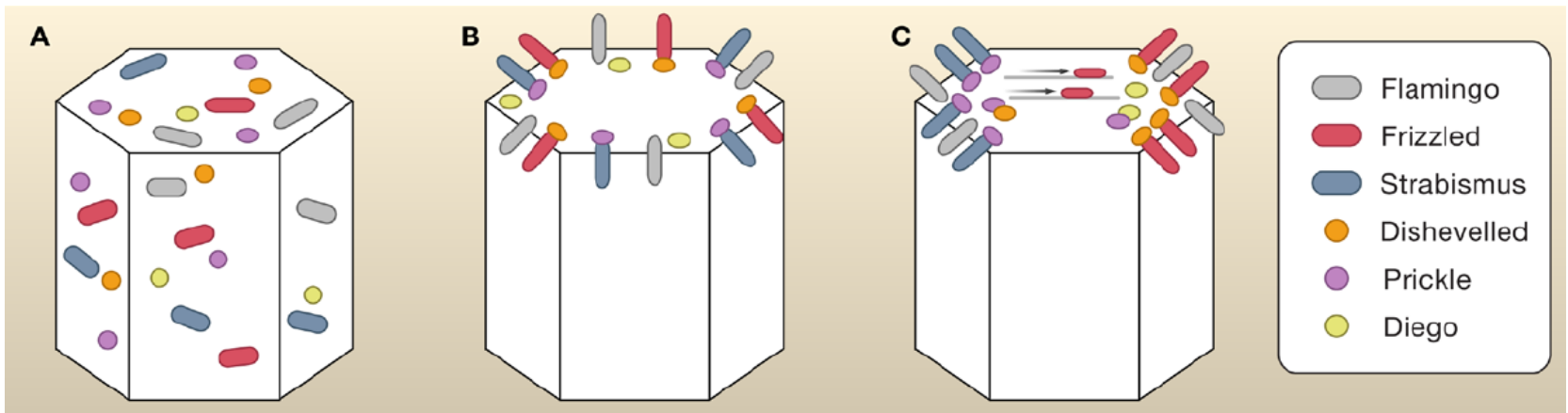
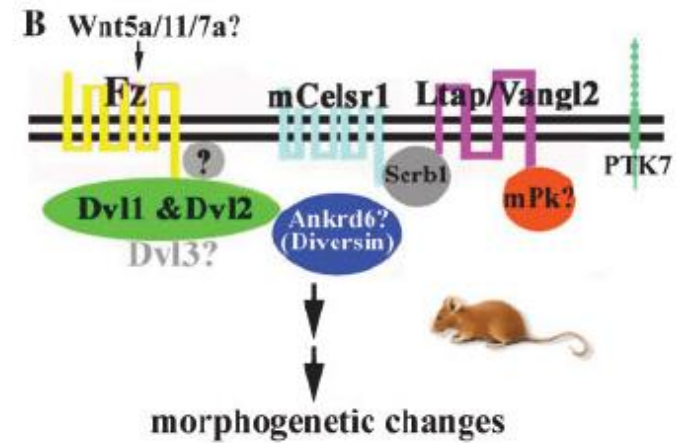
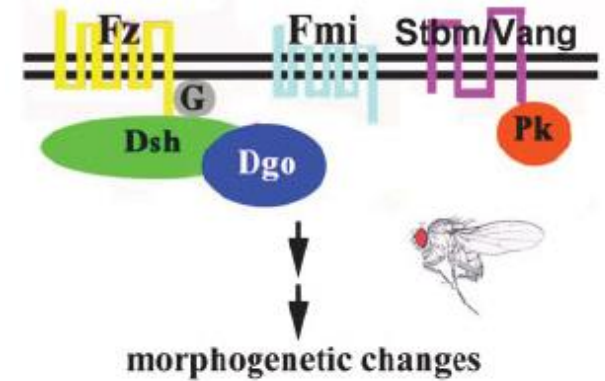
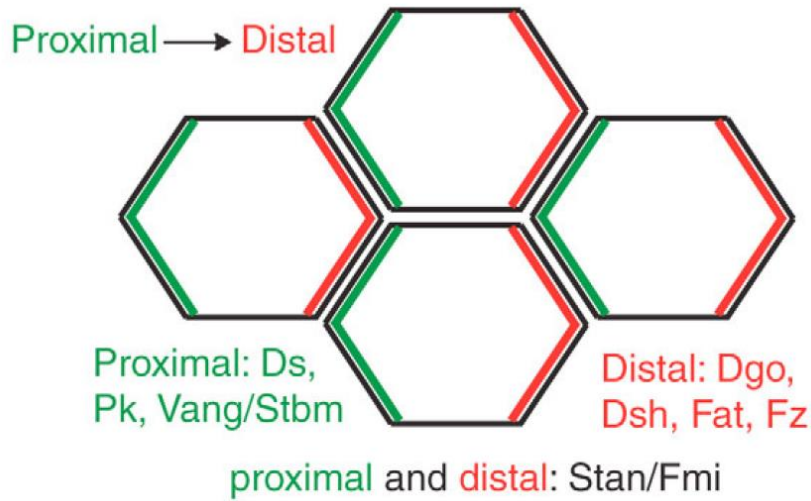


Polaridad de células epiteliales: polaridad planar



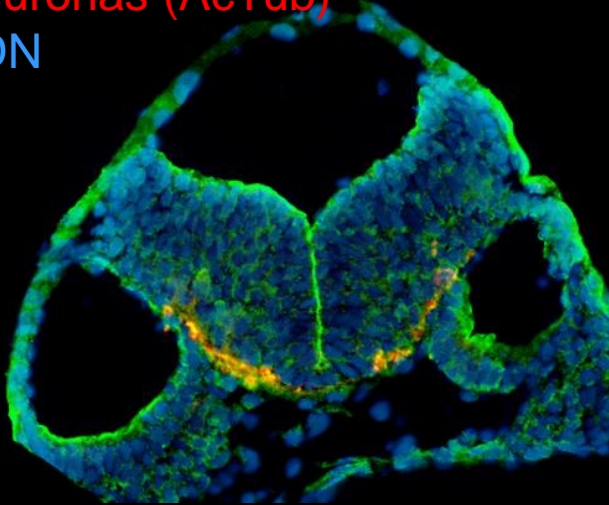
Vangl2 -/-

Polaridad de células epiteliales: polaridad planar

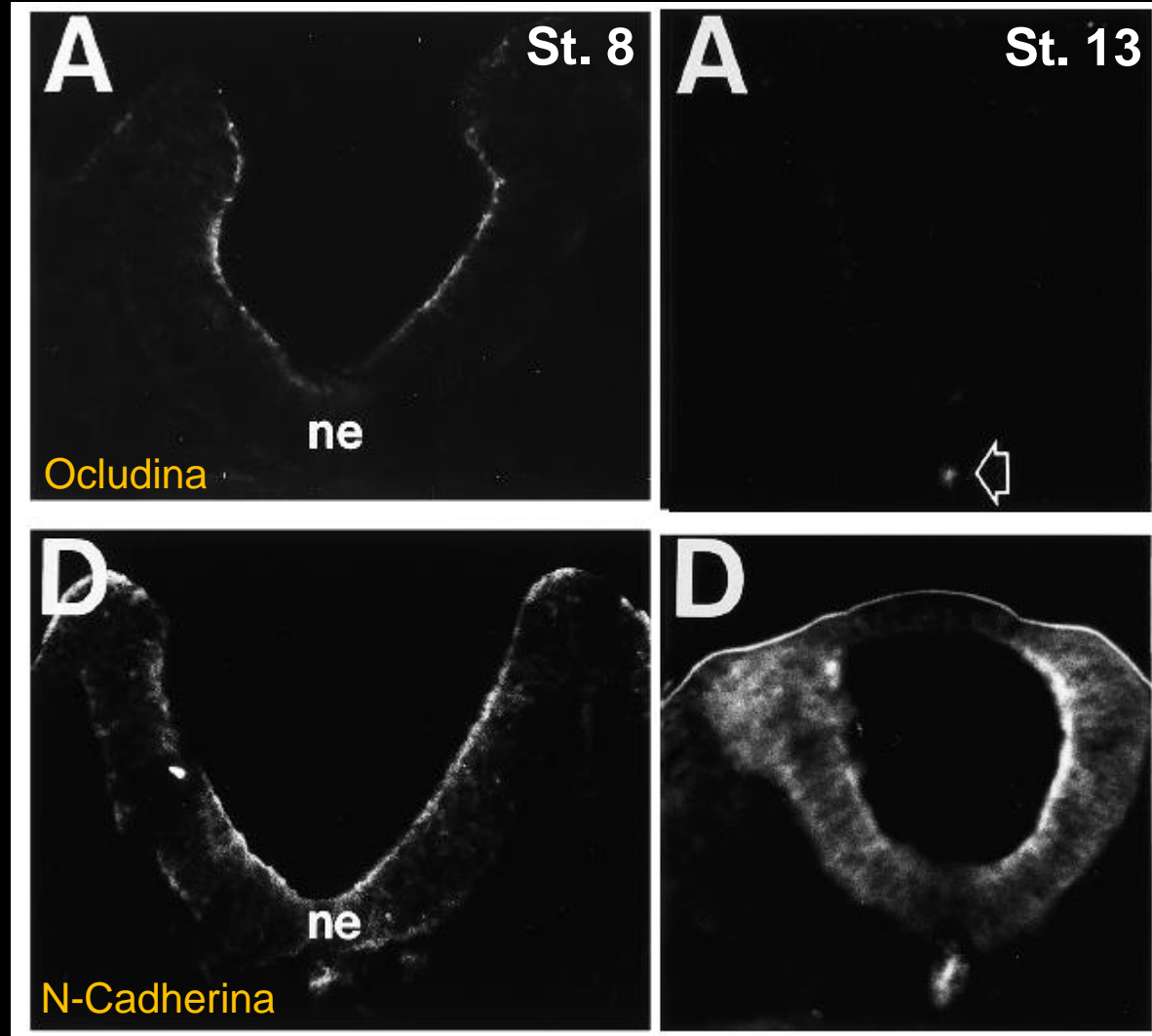
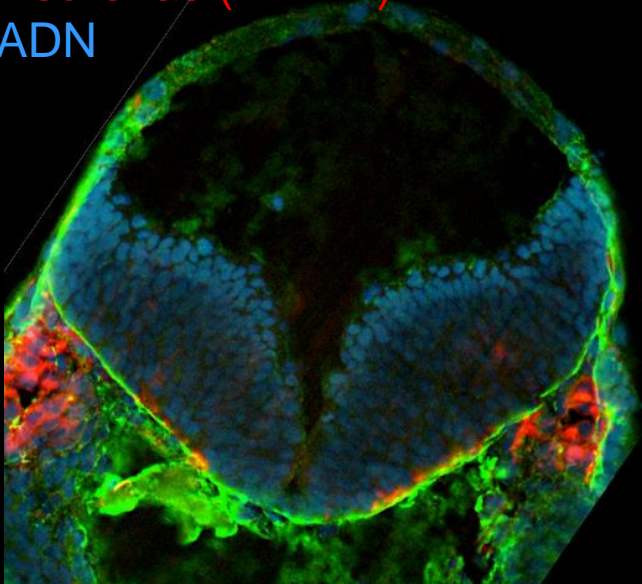


Polaridad celular en el neuroepitelio

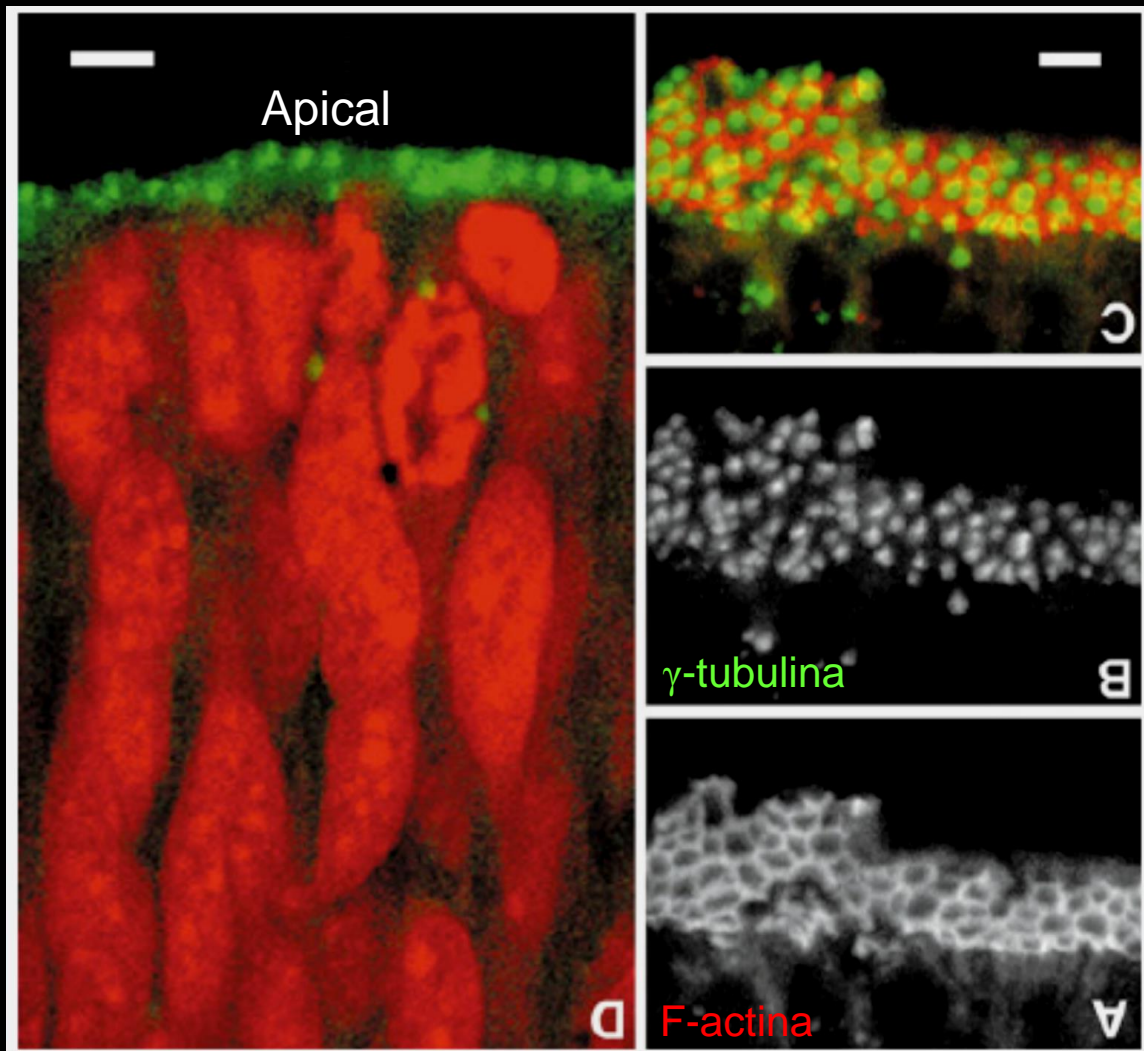
aPKC
Neuronas (AcTub)
ADN



Laminina
Neuronas (HNK-1)
ADN

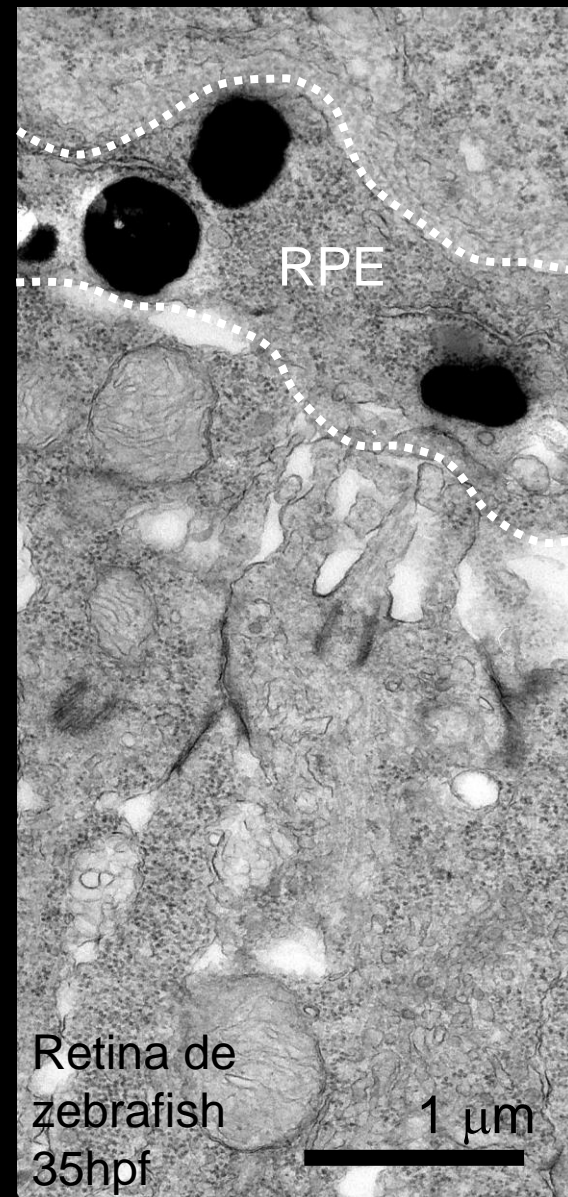


Polaridad celular en el neuroepitelio



Basal

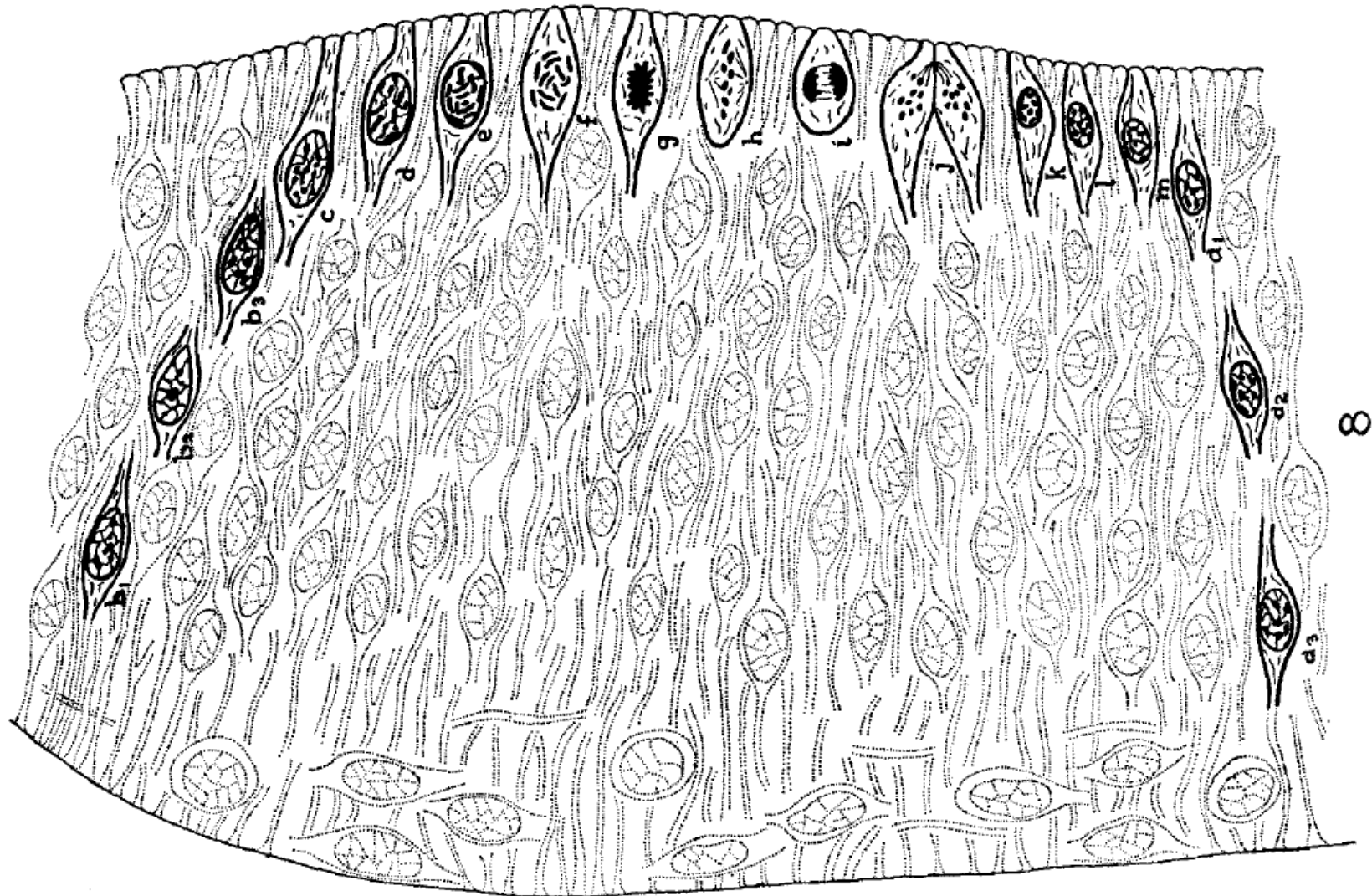
Cortex de hurón E29



MITOSIS IN THE NEURAL TUBE

F. C. SAUER¹

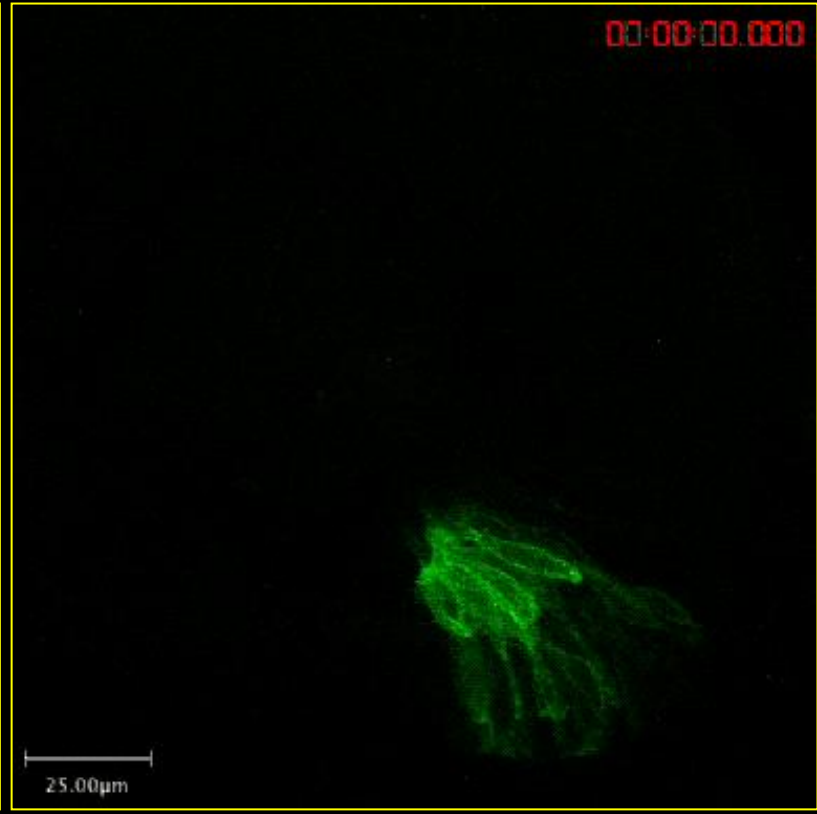
Department of Zoölogy, University of Wichita, Wichita, Kansas



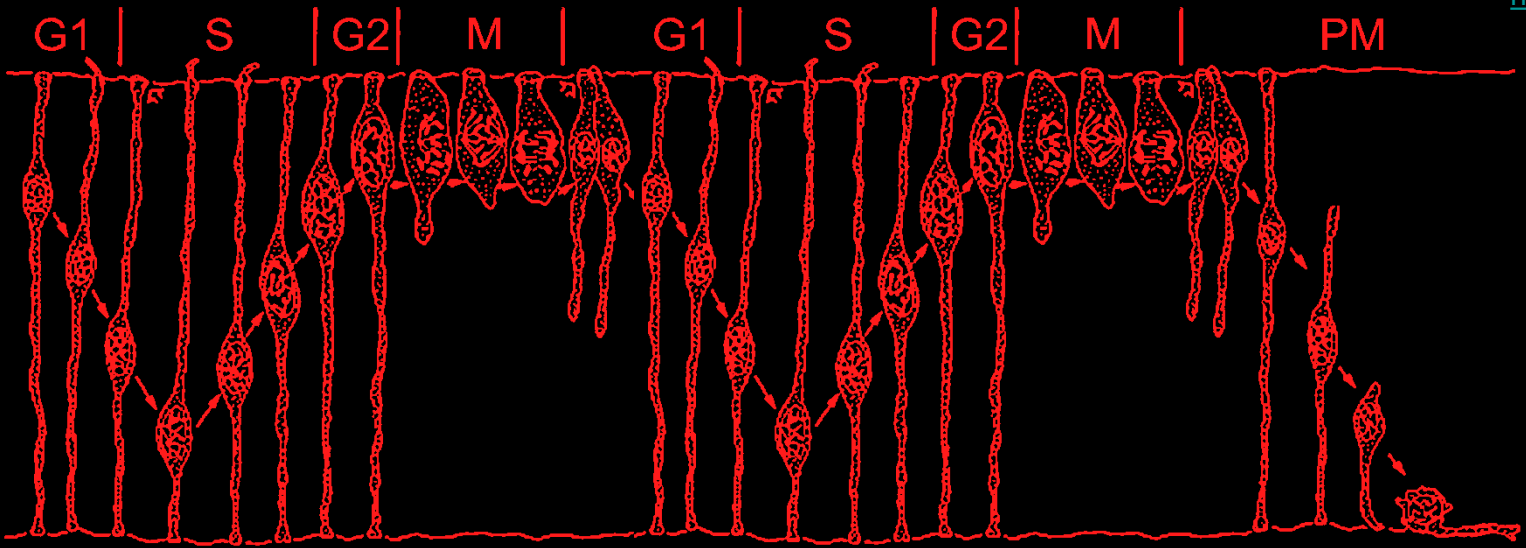
Migración nuclear intercinética

<https://youtu.be/mQqhz7h-5A>

Dave Lyon, Jon Clarke

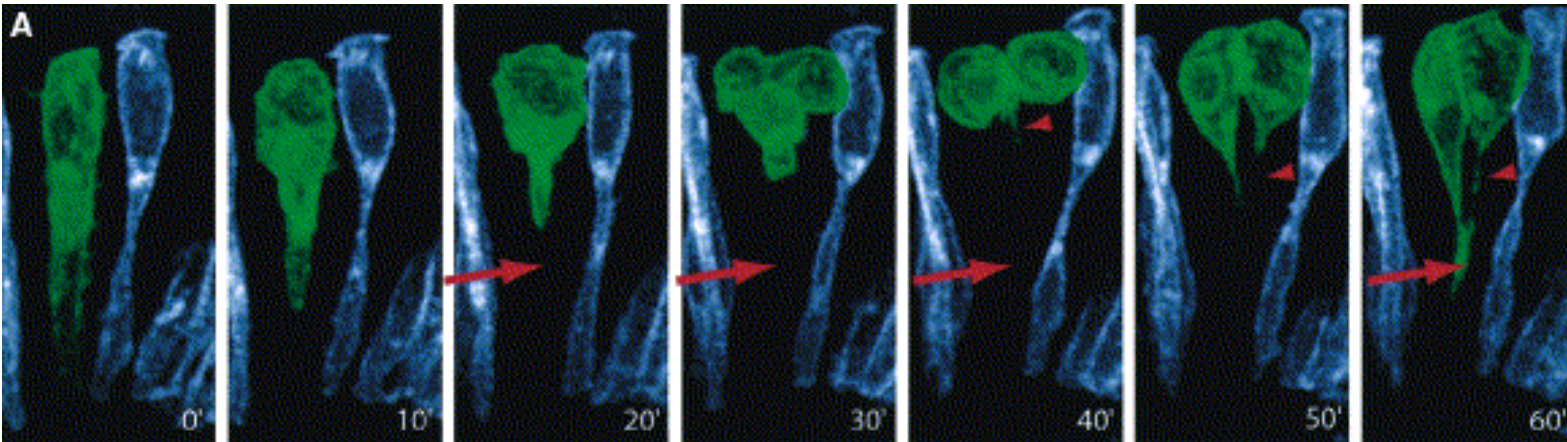
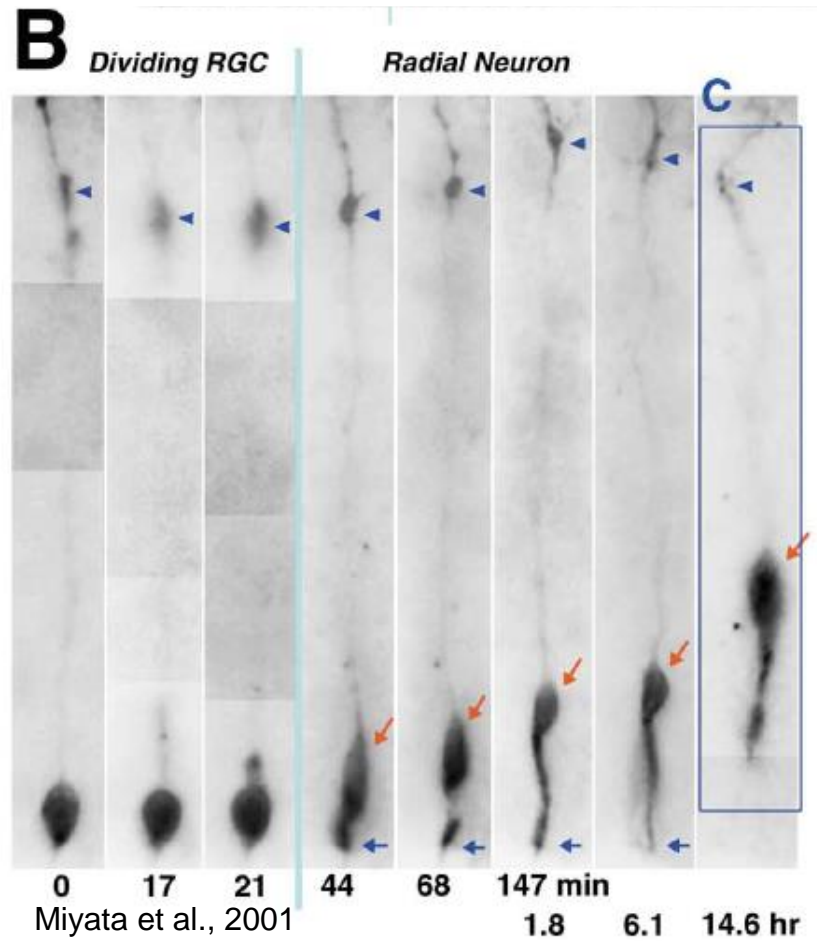
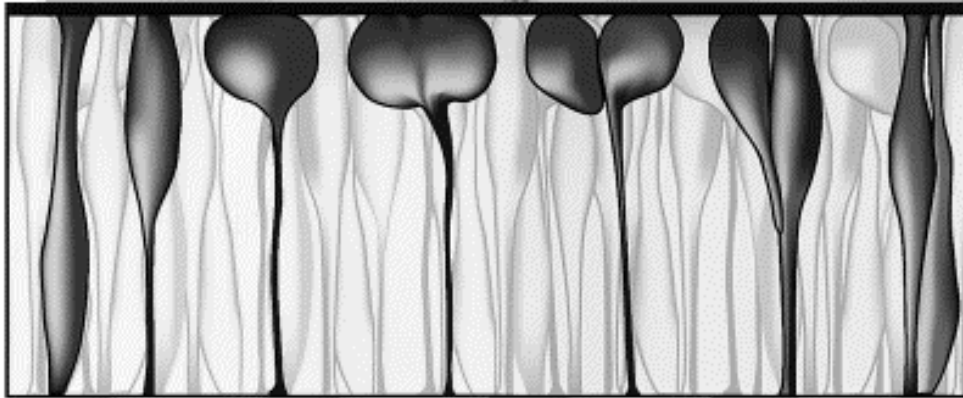


<https://youtu.be/cleqKiTwDTQ>



Migración nuclear intercinética

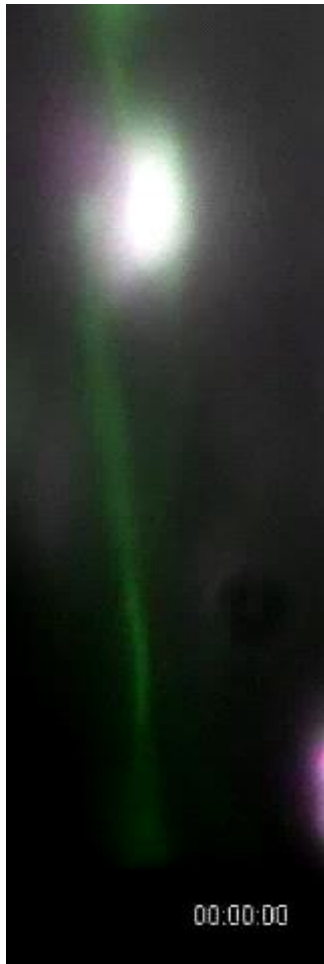
Corteza cerebral



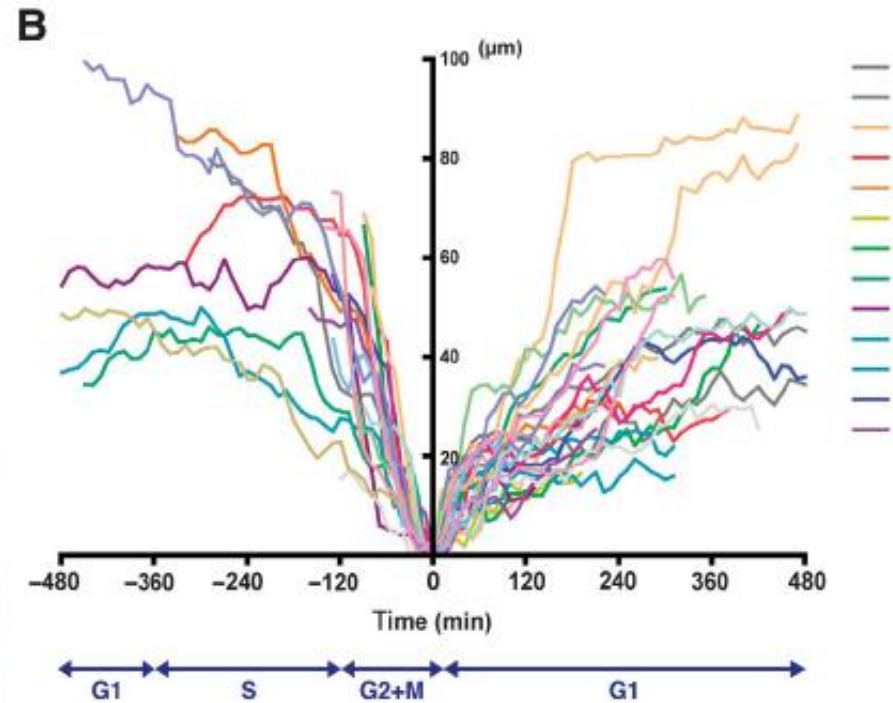
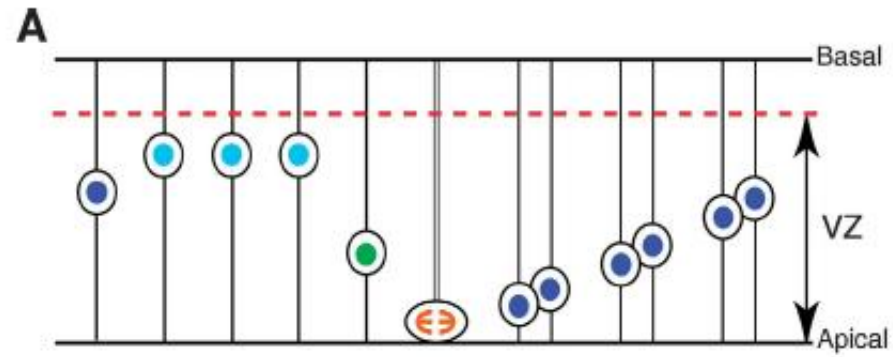
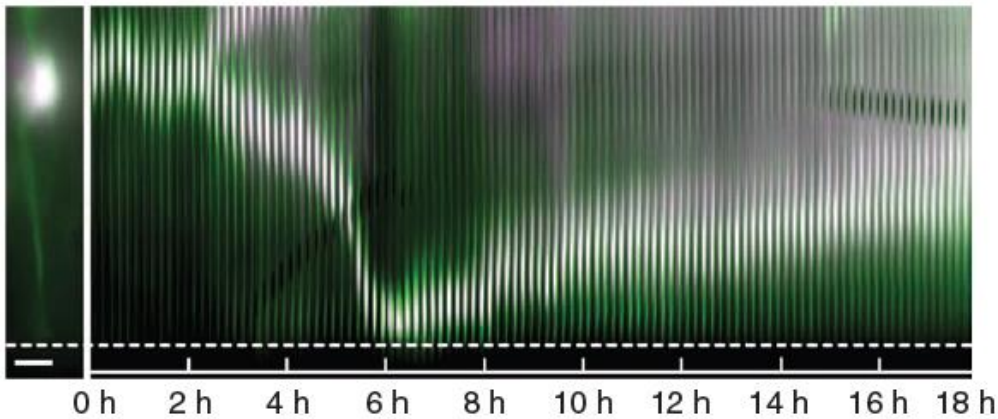
Retina

Das et al., 2003

Migración nuclear intercinética

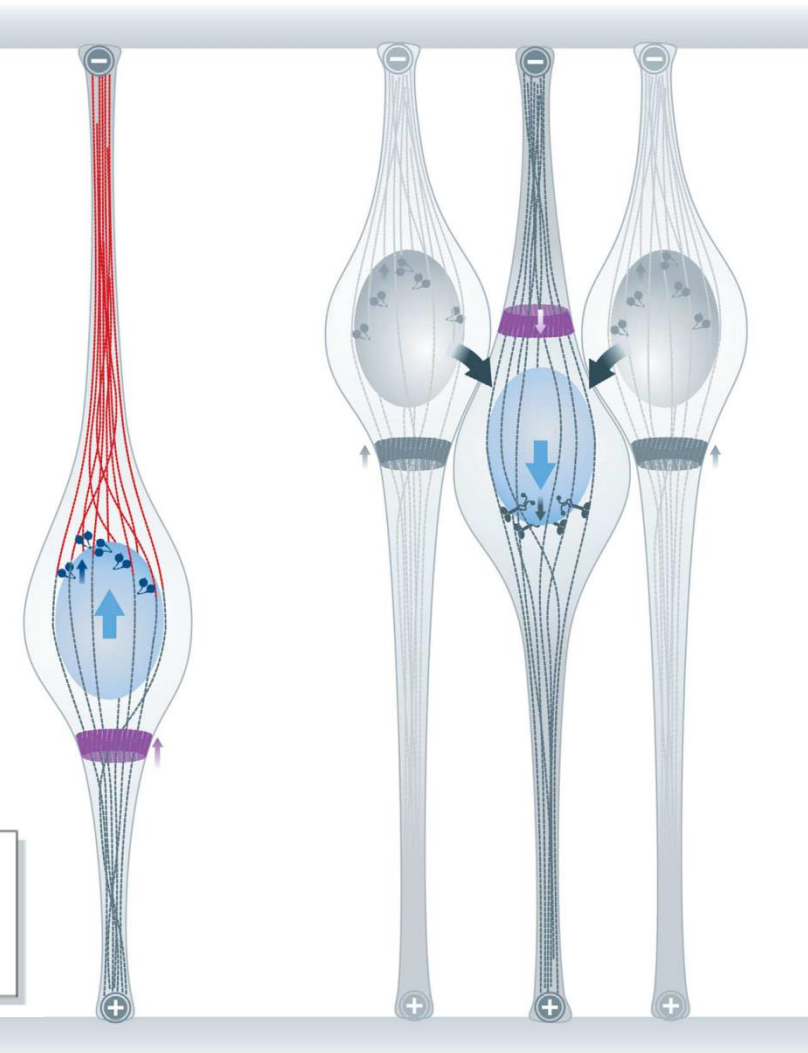
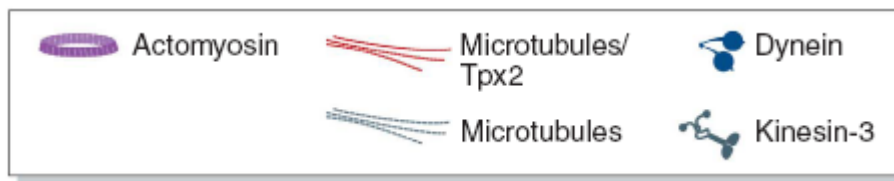
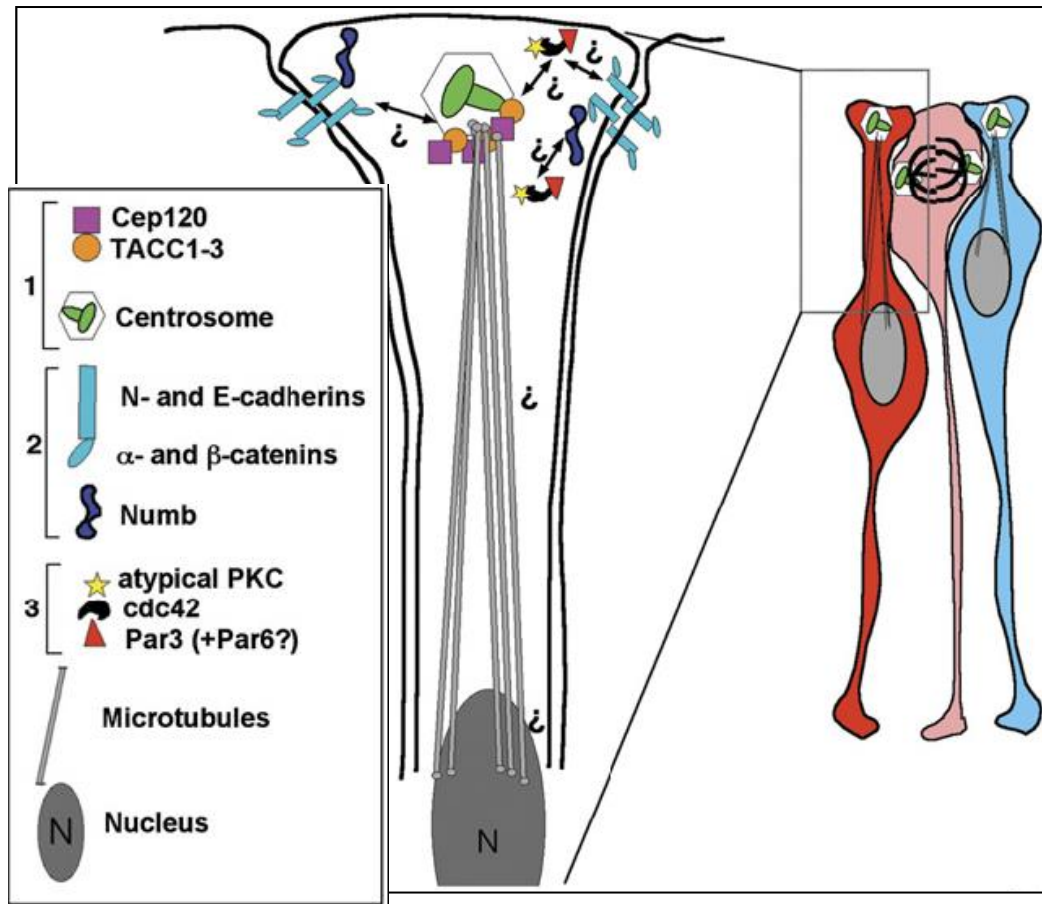


Tsai et al., 2010

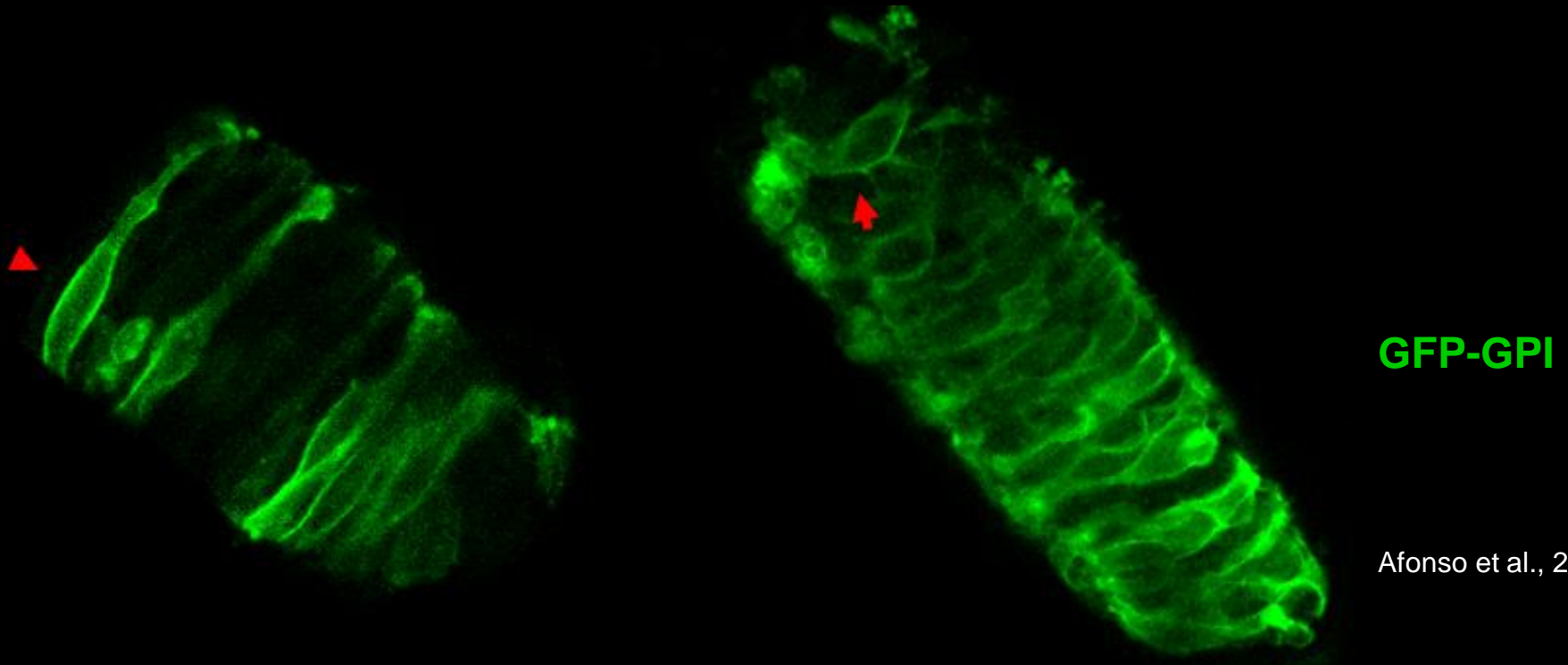


Kosodo et al., 2011

Migración nuclear intercinética



División celular en el neuroepitelio y polaridad ápico-basal



Control

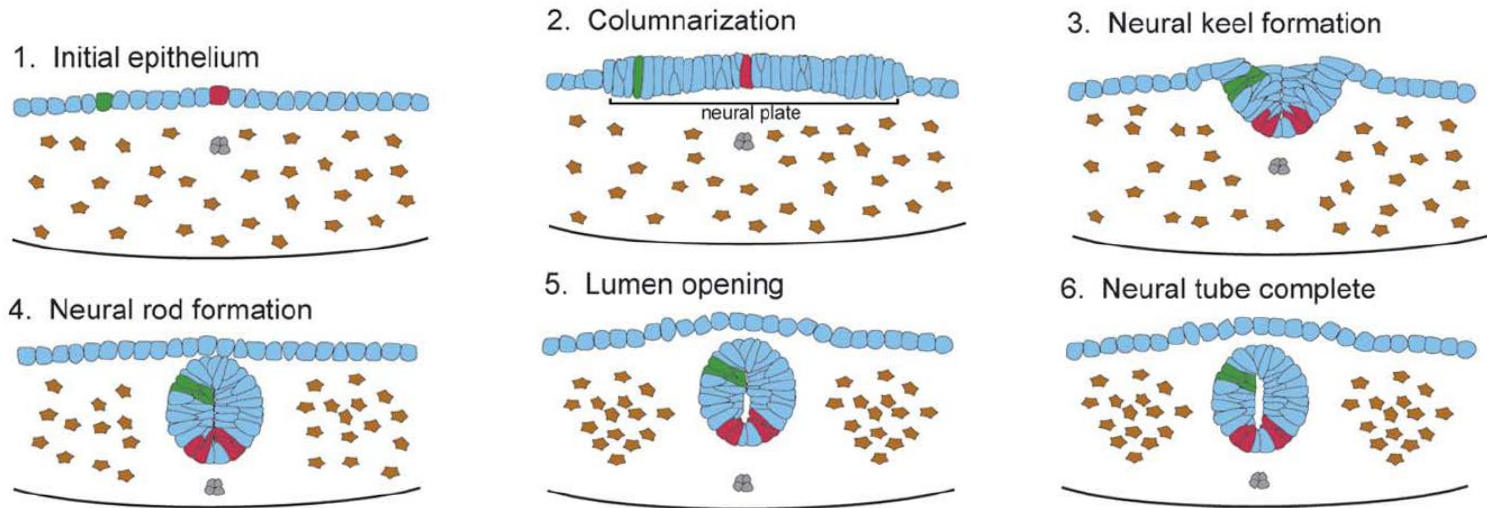
Sobreexpresión Par3

Afonso et al., 2007

<https://youtu.be/hZI34JA> Euk

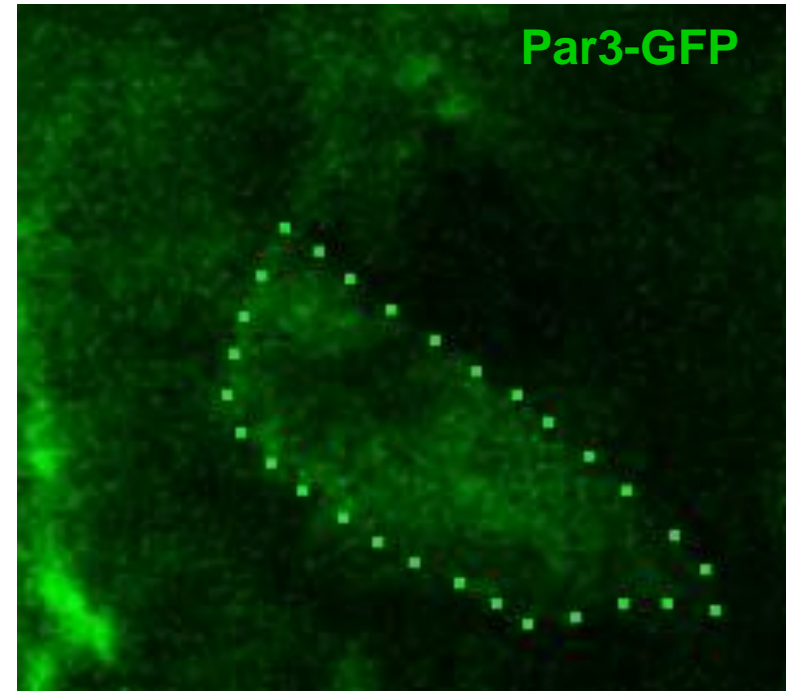
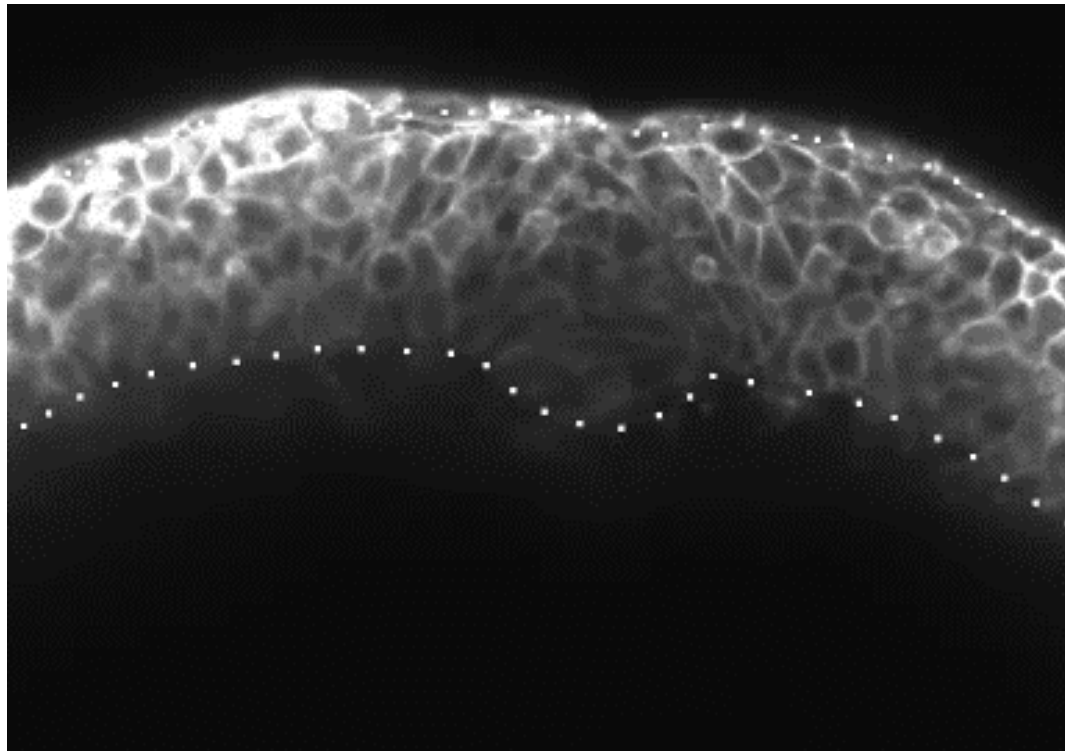
<https://youtu.be/ZgYCj6x6Sp4>

Establecimiento de la polaridad neuroepitelial en peces



Lowery and Sive, 04

<https://youtu.be/Lmwmq35j2Ww>



<https://youtu.be/94kxTSZhPSE> Tawk et al., 2007



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Francesca Napoli, Christina M. Daly, Stephanie Neal, Kyle J. McCulloch, Alexandra Zaloga, Alicia Liu, Kristen M. Koenig

doi: <https://doi.org/10.1101/2021.10.28.466353>

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Cephalopod Retinal Development Shows Vertebrate-like Mechanisms of Neurogenesis

Francesca Napoli, Christina M. Daly, Stephanie Neal,  Kyle J. McCulloch, Alexandra Zaloga, Alicia Liu,  Kristen M. Koenig

doi: <https://doi.org/10.1101/2021.10.28.466353>

Viernes 4/11

Deterministic and probabilistic fate decisions co-exist in a single retinal lineage

 Elisa Nerli,  Jenny Kretzschmar,  Tommaso Bianucci,  Mauricio Rocha-Martins,  Christoph Zechner,  Caren Norden

doi: <https://doi.org/10.1101/2022.08.11.503564>


Martes 8/11

Regulation of neuronal progenitor delamination by dynein-driven post-Golgi apical transport

J.B. Brault, S. Bardin, M. Lampic, J.A. Carpentieri, L. Coquand, M. Penisson, Hugo Lachuer, G.S. Victoria, S. Baloul, G. Boncompain, S. Miserey-Lenkei, V. Fraasier, F. Francis, F. Perez, B. Goud, A. D. Baffet

doi: <https://doi.org/10.1101/2021.07.23.453475>

Control of G2 phase duration by CDC25B modulates the switch from direct to indirect neurogenesis in the neocortex

Mélanie Roussat, Thomas Jungas, Christophe Audouard, Francois Medevielle, Alice Davy, Fabienne Pituello,  Sophie Bel-Vialar

doi: <https://doi.org/10.1101/2021.12.14.472592>