



**Cover:** Immunofluorescent staining of CFTR (green) in the proximal mouse epididymis. In addition to being located in the apical membrane, CFTR is localised at tight junctions, where it uses its PDZ-binding domain to interact with ZO-1. Through this interaction, CFTR mediates the transcription of genes that control differentiation and proliferation, which it modulates by regulating the retention or recruitment of ZO-1 nucleic acid binding protein (ZONAB; also known as YBX3) to tight junctions. Blue, DAPI. See article by Ye Chun Ruan et al. (pp. 4396–4408).

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- 4396 CFTR interacts with ZO-1 to regulate tight junction assembly and epithelial differentiation through the ZONAB pathway  
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- 4470 Actin-binding proteins differentially regulate endothelial cell stiffness, ICAM-1 function and neutrophil transmigration

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- 4483 AIMP1 negatively regulates adipogenesis by inhibiting PPAR $\gamma$   
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- 4494 Secreted fibroblast-derived miR-34a induces tubular cell apoptosis in fibrotic kidney  
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- 4507 Actin and PIP3 waves in giant cells reveal the inherent length scale of an excited state  
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- 4531 Cardiac ryanodine receptor activation by a high Ca<sup>2+</sup> store load is reversed in a reducing cytoplasmic redox environment  
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