

# American Journal of Physiology- Cell Physiology

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## INVITED REVIEWS

- Role of N- and O-glycans in polarized biosynthetic sorting  
*B. A. Potter, R. P. Hughey, and O. A. Weisz* C1
- Role of tethering factors in secretory membrane traffic  
*E. Sztul and V. Lupashin* C11




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## TRANSLATIONAL PHYSIOLOGY

- Augmented extracellular ATP signaling in bladder urothelial cells from patients with interstitial cystitis  
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-  *A new mechanism for flow-mediated vasoprotection? Focus on "Lung endothelial cell proliferation with decreased shear stress is mediated by reactive oxygen species"*  
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-  *Comparison of gene expression in cell culture to that in the intact animal: relevance to drugs and environmental toxicants. Focus on "Development of a transactivator in hepatoma cells that allows expression of phase I, phase II, and chemical defense genes"*  
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-  *CIC-2 channels get new partners. Focus on "Association between Hsp90 and the CIC-2 chloride channel upregulates channel function"*  
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## MEMBRANE TRANSPORTERS, ION CHANNELS, AND PUMPS

-  Association between Hsp90 and the CIC-2 chloride channel upregulates channel function  
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Cover: The cover shows a montage of Ca<sup>2+</sup> dynamics induced by 300 nM carbachol treatment in a small acinus (around 3 cells) of a parotid gland slice. Both morphological and functional characteristics are shown. The slice was loaded with 5 μM fura-2 AM for 1 h and imaged at 2 Hz. See the related article by Chen Y, Warner JD, Yule DI, and Giovannucci DR. *Am J Physiol Cell Physiol* 289: C1209–C1219, 2005.

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