CONTENTS · THE JOURNAL OF General Physiology

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Cover picture: Model depicting how purinoceptor ($P2Y_2$-R) activation couples to Cl^- secretion in the normal and the cystic fibrosis (CF) human airway epithelia. In normal epithelium, Cl^- secretion is mediated by (1) CFTR in a Ca^{2+}-dependent (basolateral membrane hyperpolarization) and -independent (protein kinase C activation) fashion and (2) Ca^{2+}-activated Cl^- channel (CaCC). In CF epithelium, only CaCC-mediated secretion exists. See related article by Paradiso, A.M., C.M.P. Ribeiro, and R.C. Boucher, in this issue, pp. 53–67.