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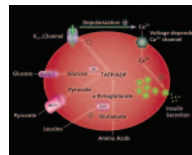
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**ON THE COVER** The illustration shows the mechanisms of insulin secretion in pancreatic  $\beta$ -cells. Increase in ATP:ADP ratio inhibits the ATP-sensitive potassium channel ( $K_{ATP}$  channel) resulting in closure of the channel, depolarization of the membrane, influx of calcium, and release of insulin. Insulin secretion is stimulated by glucose oxidation via glucokinase and by leucine stimulation of glutamate oxidation via glutamate dehydrogenase. Abnormally elevated pyruvate levels in the  $\beta$ -cell will stimulate insulin secretion. See review by Palladino et al. on page 256.

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## CALL FOR ART

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