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Epac and PKA: a tale of two intracellular cAMP receptors . Xiaodong Cheng*, Zhenyu Ji, Tamara Tsalkova, and Fang Mei . Department of Pharmacology and Toxicology, Sealy Center for Cancer Cell Biology and Sealy Center for Structural Biology and Molecular Biophysics, University of Texas Medical Branch, Galveston, Texas 77555-1031, USA

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Manuscript NO: 64251

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Tale of two kinases: Protein kinase A and Ca²⁺/calmodulin-dependent protein kinase II in pre-diabetic cardiomyopathy

PKA and CaMKII in pre-diabetic cardiomyopathy

Abstract

Metabolic syndrome (MetS) is a pre-diabetic state characterized by several biochemical and physiological alterations, including insulin resistance, visceral fat accumulation, and dyslipidemias, which increase the risk for developing cardiovascular disease. MetS is associated with augmented sympathetic tone, which could account for the etiology of pre-diabetic cardiomyopathy. This review summarizes the current knowledge of the pathophysiological consequences of enhanced and sustained β -adrenergic response in pre-diabetic cardiomyopathy.

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Ca²⁺/calmodulin-dependent protein kinase II (CaM kinase II) may play a key role in the regulation of insulin secretion. We obtained evidence for the presence of CaM kinase II and its substrate, a 84-kilodalton (kDa) protein, in mouse insulinoma MIN6 cells. CaM kinase II from MIN6 cells has one subun
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THE JOURNAL OF BIOLOGICAL CHEMISTRY 0 1988 by The American Society for Biochemistry and Molecular Biology, Inc. Vol. 263, No. 35, Issue of December 15, pp. 19232-19239, 1988 Printed in U.S.A. Regulation of Ca²⁺/Calmodulin-dependent Protein Kinase I1 by Ca²⁺/Calmodulin-independent Autophosphorylation* (Received for publication, December 11, 1987)

[The Ca²⁺/calmodulin-dependent protein kinase II ...](#)

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Retinal cytosolic Ca²⁺/calmodulin-dependent protein kinase II (CaM KII) was isolated from hatched 6-wk chicken retinae by ultracentrifugation and affinity chromatography using calmodulin (CaM) and anti-CaM KII- α columns. Samples from different fractions were examined with SDS-polyacrylamide gel electrophoresis (SDS-PAGE) and silver staining or immunoblotting.