Role of vascular angiotensin II for the development of coronary artery stenosis

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1991 Fiscal Year Final Research Report Summary

Role of vascular angiotensin II for the development of coronary artery stenosis

Research Project

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02454219
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内科学一般
Research Institution
Kanazawa University
Principal Investigator
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Angiotensin II / Endothelin / Hypertension / SHR / Diabetic Rat / Mesenteric artery

Research Abstract

In spontaneously hypertensive rats, plasma endothelin concentration as well as the peptide released from the mesenteric arteries were significantly increased both at 5 and 10 weeks of age. This finding suggests that endothelin may contribute for the development of hypertension in this, model. We also studied the vascular endothelin production in the streptozotocin induced diabetic rats. In diabetic rats, endothelin was significantly increased as compared with the control rats indicating that endothelin may serve as a marker for the vsacular insults in diabetes associated with microangiopathy. We assume that endothelin was increased in diabetic rats as a result of functional and/of structural derangement caused by streptozotocin diabetes. In the last part of the experiment, we measured plasma and arterial endothelin in rats treated with interleukin 2, an agent reported to cause extravasation of fluid in the third space, presumably as a result of endothelial damage. We conclude that plasma endothelin will be used as a marker for the endothelial function in this condition. We plan to undertake further study as to the possibility of endothelin receptor antagonist for the therapeutic purpose.

Research Products (6 results)

			А	ui c	Other
	All	Publica	itions (6	5 res	sults)
[Publications] Y.Takeda,I.Miyamori,T.Yonede,R.Takeda: "Production of endothelin-1 from the mesenteric arteries of Streptozotocin in Sciences. 48. 2553-2556 (1991)	Iduce	ed diabet	ic rats."	Life	*
[Publications] I.Miyamori,Y.Takeda,T.Yonede,R.Takeda: "Endotheilin-1 release from the mesenteric arteries of spontaneously hypert J.Cardiovascular Pharmacology. 17(S7). S408-S410 (1991)	ensiv	e rats."			~
[Publications] I.Miyamori,Y.Takeda,T.Yonede,K.Iki,R.Takeda: "Interleukin-2 enhace the release of endothelin-1 from the rat mesenter Sciences. 49. 1295-1300 (1991)	ric ar	rteries."	Life		~
[Publications] Isamu Miyamori, Yoshiyu Takeda, Takashi Yoneda, Ryoyu Takeda: "Endothelin-I release from mesenteric arteies of sp arts." J. Cardiovascular Pharmacol.17(s7). S408-S410 (1991)	ontan	neously h	ypertens	sive	~
[Publications] Y. Takeda, I. Miyanori, T. Yoneda, R. Takeda: "Production of endothelinl from the mesenteric arteries of streptozotocir Life Sciences. 48. 2553-2556 (1991)	indu	iced diab	etic rats'	"	~
[Publications] I. Miyamori, Y. Takeda, T. Yoneda, K. Iki, R. Takeda.: "Interleukin-2 enhance the release of endothelin-l form the rat r Sciences. 49. 1295-1300 (1991)	neser	nteric art	eries." L	.ife	~

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