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The Defect in Tryptophan Metabolism in Young and Adult Spontaneously Hypertensive Rats*

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Urinary excretion patterns of acidic metabolites of tyrosine, tyramine, catecholamines and tryptophan were measured in spontaneously hypertensive (SHR) rats at 5 and 15 weeks of age, and compared with those in two normotensive strains, Wistar Kyoto (WKY) and Donryu rats. There were no significant differences in excretions of noradrenaline and adrenaline metabolites, 3,4-dihydroxymandelic acid and vanillylmandelic acid among these strains of rats at both ages. However, a markedly decreased excretion of β -indoleacetic acid, one of the metabolites of tryptamine was observed in young and adult SHR rats when compared to WKY rats.

* 本報告は *Hypertensive Mechanisms*: The spontaneously hypertensive rat as a model to study human hypertension; Proceedings of the 4th International Symposium on Rat with Spontaneous Hypertension and related Studies, Heidelberg, September 1—4, 1981. ed. by W. Rascher, D. Clough, and D. Ganten. Schattauer, Stuttgart and New York, 1982, pp.638—640 に発表

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