

Title	The defect in tryptophan metabolism in young and adult spontaneously hypertensive rats
Sub Title	
Author	川島, 紘一郎(Kawashima, Koichiro) 渡辺, 卓司( Watanabe, Takushi) 曾我部, 博文( Sokabe, Hirofumi) Zehr, J. E.( Sakai, Toshio) 酒井, 稔夫( Ozawa, Masatomi) 小沢, 雅富( Aonuma, Kazuo) 青沼, 和夫
Publisher	共立薬科大学
Publication year	1984
Jtitle	共立薬科大学研究年報 (The annual report of the Kyoritsu College of Pharmacy). No.29 (1984. ) ,p.51- 51
JaLC DOI	
Abstract	
Notes	抄録
Genre	Technical Report
URL	<a href="https://koara.lib.keio.ac.jp/xoonips/modules/xoonips/detail.php?koara_id=AN00062898-00000029-0051">https://koara.lib.keio.ac.jp/xoonips/modules/xoonips/detail.php?koara_id=AN00062898-00000029-0051</a>

慶應義塾大学学術情報リポジトリ(KOARA)に掲載されているコンテンツの著作権は、それぞれの著作者、学会または出版社/発行者に帰属し、その権利は著作権法によって保護されています。引用にあたっては、著作権法を遵守してご利用ください。

The copyrights of content available on the Keio Associated Repository of Academic resources (KOARA) belong to the respective authors, academic societies, or publishers/issuers, and these rights are protected by the Japanese Copyright Act. When quoting the content, please follow the Japanese copyright act.

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

K. KAWASHIMA, T.X. WATANABE\*\*, H. SOKABE\*\*, J.E. ZEHR\*\*,  
T. SAKAI\*\*\*, M. OZAWA\*\*\* and K. AONUMA\*\*\*

川島紘一郎, 渡辺卓司\*\*, 曾我部博文\*\*, J.E. ZEHR\*\*,  
配井稔夫\*\*\*, 小沢雅富\*\*\*, 青沼和夫\*\*\*

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  $\beta$ -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

\*\* 自治医大・薬理

\*\*\* 三菱油化・中研