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bution of renal kinins in the antihypertensive effects of CE inhibitors in SHRSP rats. Reduction in UKV of enalapril and captopril groups could be due to the prevention of renal injury through the reduction of BP by inhibition of ANG II generation.

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Direct Determination of Acetylcholine Released from Longitudinal Muscle Strips of Guinea-pig Ileum by a Specific Radioimmunoassay.

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An attempt was made to directly determine the release of acetylcholine (ACh) from longitudinal muscle strips of guinea-pig ileum by a radioimmunoassay (RIA) with a sensitivity of 10 pg/tube. The strips were suspened in an organ bath of 0.3 ml and was perfused with Krebs solution. The perfusate was collected for ACh determination.

Resting output of ACh from the strips was about 20 pg/mg/3 min. Electrical stimulation produced a twitch response and a significant increase of ACh output of about 30 pg/mg/shock (3 min). When perfused with the Krebs solution containing 50 mM KCl, a typical tetanic response was observed and ACh output was increased more than 10 times than that after the electrical stimulation. Perfusion of the strips with the Ca^{2+} free Krebs solution produced no changes in resting ACh output, but abolished a twitch response and the increase of ACh output due to electrical stimulation.

These results indicate that RIA can be used to determine ACh output from longitudinal muscle strips in the resting conditions, under electrical stimulation, and even under various K^+ and Ca^{2+} concentrations which affect contraction response.

Bacillus brevis による Edeine B_1 の変換

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〔日本薬学会　第106年会（1986年4月，千葉）で発表〕

〔目的〕 *Bacillus brevis* TT 02-8 株は Mn 含有培地で生育させると edeine B_1 の変換活性を示す。本報では微生物変換体を調製し，反応様式を検討した。