

of metaraminol *in vitro* may be presumed to act on the membrane "pump" (i.e. the uptake phase of retention) and not to be acting by impairing intra-neuronal binding (Giachetti & Shore, 1966). Thus the results of the present investigations, using [<sup>3</sup>H]metaraminol, strongly suggest that both sodium and potassium are required for the optimal functioning of the membrane "pump" or carrier system, which is responsible for the initial uptake of noradrenaline and related amines into adrenergic nerves.

*Acknowledgements.* This investigation was supported by a grant from the Alberta Heart Foundation and a fellowship from the Canadian Heart Foundation.

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July 17, 1967

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### Complexation of penicillins and penicilloic acids by cupric ion

SIR,—We wish to correct two errors in a paper by Cressman, Sugita & others (1966) with the above title. These are: (1) the values given for the logarithmic association constants for penicilloic G and V acids were transposed. The values should read:

$$\begin{array}{ll} \text{penicilloic V acid} & \log K = 4.50 \pm 0.02 \\ \text{penicilloic G acid} & \log K = 4.20 \pm 0.5 \end{array}$$

and (2) the value for the logarithmic association constant for penicillin V and cupric ion should be corrected to read:

$$\begin{array}{ll} \text{penicillin V} & \log K = 2.24 \text{ (in the absence of ionic strength control)} \\ \text{penicillin V} & \log K = 2.09 \text{ (at ionic strength of 0.01 molar).} \end{array}$$

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