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Cover picture: Distribution of neurotensin (NT) fibers in the midbrain periaqueductal gray (PAG) of the rat. Pseudocolor (upper left) and isodensitometric maps (lower) of the density of immunocytochemically stained NT fibers were created from video images using software (developed by J. Luna and M.T. Shipley, University of Cincinnati College of Medicine) developed for the Magiscan Image Analysis System (Joyce-Loebel/Nikon; Photography by E. Giglio). Using quantitative image analysis methods, it was shown that NT fibers are heterogeneously distributed in PAG (Shipley, et al., this volume, pp. 2025–2034). NT injected in PAG causes long-lasting, naloxone insensitive analgesia. A companion article (Behbehani, et al., pp. 2035–2040) demonstrates that NT causes long-lasting depolarization of PAG neurons in slices even when synaptic transmission is blocked by cobalt, suggesting that NT fibers mediate analgesia by postsynaptic activation of PAG neurons.

Instructions to Authors appear in the January issue only. Copies of the Instructions can be obtained by writing the Society for Neuroscience, 11 Dupont Circle, N.W., Suite 500, Washington, DC 20036.

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