



Tachykinins (Handbook of Experimental Pharmacology)

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More than 70 years have elapsed since U. S. von Euler and I. H. Gaddum discovered an unidentified depressor substance in the brain and gut. The effects of the powdery extracts were marked as 'P' on the kymograph tracings, and the nondescript name of 'substance P' still carries the breath of this adventurous period. In the 1960s, substance P returned in another disguise, staging as a hypothalamic peptide that causes copious salivary secretion (see chapter by F. Lembeck and I. Donnerer). This time, though, the mysterious substance was tracked down by S. E. Leeman and her collaborators as an undecapeptide, after it had eluded its identification for some 40 years. Substance P turned out to be the mammalian counterpart of a family of peptides which had been extracted from amphibian and nonvertebrate species and which had been given the name 'tachykinins' by V. Erspamer. Soon novel members of this peptide family were discovered, and in mammals substance P was joined by neurokinin A and neurokinin B. The presence of tachykinins in frog skin as well as in venoms and toxins of microbes and arachnids raises the possibility that these peptides represent an old system of biological weapons that have been transformed to a particular messenger system in mammals.

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