Chemical Senses

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Published nine times per year by Oxford University Press, in association with the European Chemoreception Research Organization, the Association for Chemoreception Sciences and the Japanese Association for the Study of Taste and Smell.

Cover image: P2X2 receptor expression on afferent nerve fibers throughout the rostral to caudal extent of the mouse Nucleus Tractus Solitarius and area postrema. The photomontage shows a darkfield image of the mouse brainstem cut in a horizontal plane and immunohistochemically labeled for the P2X2 receptor. P2X2 positive fibers are labeled brown. The NTS borders are outlined in white. The NTS extends from the rostral pole (RP) of the nucleus to the point at which the NTS first separates from the PVN ventricle (VI). These representative levels equally spaced throughout the NTS are indicated by dotted lines (1–3). Level 3 receives gustatory input primarily from the facial (VII) nerve; levels 2 and 3 mainly from the glossopharyngeal (IX) nerve. The intermediate NTS (NTS) extends caudally to the rostral pole of the area postrema (AP), and the caudal NTS (cNTS) includes the remainder of the NTS that is caudal to rNTS. For further details please see the article by Breza and Travers, page 515.