

List of Publications

- Dijkstra D., Grol C.J. (1992) A simple, unexpected regioselective chlorination of a series of 5-OH-2-(alkylamino)tetralins: potential dopaminergic compounds. *Bioorg. & Med. Chem. Lett.* **2**, 115
- Witte D.T., Franke J.P., Bruggeman F.J., Dijkstra D., De Zeeuw R.A. (1992) The influence of solute structure, temperature, and eluent composition on the chiral separation of 21 aminotetralins on a cellulose tris-3,5-dimethylcarbamate stationary phase in high-performance liquid chromatography. *Chirality* **4**,
- Swart P.J., Jansman F.G.A., Drenth B.F.H., De Zeeuw R.A., Dijkstra D., Horn A.S. (1991) Impact of structural differences on the in vitro glucuronidation kinetics of potentially dopaminergic hydroxy-2-aminotetralins and naphthoxazines using rat and human liver microsomes. *Pharmacol. Toxicol.* **68**, 215
- Timmerman W., Tepper P.G., Dijkstra D., Stoelwinder H., Grol C.J., Westerink B.H.C., Horn A.S. (1991) Enantiomers of monohydroxy-2-aminotetralins derivatives and their activity at dopamine autoreceptors as studied by brain microdialysis. *Eur. J Pharmacol.* **199**, 145
- Pras N, Booi GE, Dijkstra D, Horn AS, Malingre TM. (1990) Bioconversion of bi- and tri-cyclic monophenols by alginate-entrapped cells of *Mucuna pruriens* L. and by a partially purified *Mucuna* phenoloxidase. *Plant Cell Tissue Organ Cult.* **21**, 9
- Dijkstra D, Mulder TBA, Rollema H, Tepper PG, Van der Weide J, Horn AS (1988) Synthesis and pharmacology of trans-4-n-propyl-3,4,4a,10b-tetrahydro-2H,5H-1-benzopyrano-[4,3-b]1,4-oxazin-7- and -9-ols. The significance of nitrogen pka values for central dopamine receptor activation. *J Med Chem* **31**, 2178
- Vermue NA, Dijkstra D, Horn A S (1988) Pharmacological profile of a chromanamine analog (DP-60H-3CA) of the selective presynaptic dopamine agonist N,N-dipropyl-7-hydroxy--2-aminotetralin. *J Pharm Pharmacol* **40**, 574
- Mulder T B A, De Vries JB, Dijkstra D, Wiechers J W, Grol CJ, Horn AS. (1987) Further in vitro and in vivo studies with the putative presynaptic dopamine agonist N,N-dipropyl-7-hydroxy-2-aminotetralin. *Naunyn-Schmiedeberg's Arch Pharmacol* **336**, 494
- Beart, P. M.; Cook, C. J.; Cincotta, M.; De Vries, D. J; Tepper, P.; Dijkstra, D.; Horn, A. S. (1987) Radioreceptor binding reveals the potencies of N,N-disubstituted 2-aminotetralins as D2 dopamine agonists *Naunyn-Schmiedeberg's Arch. Pharmacol.*, **336**(5), 487-93.
- Mulder, T. B. A.; Grol. C. J.; Dijkstra, D.; Horn, A. S. (1986) Characterization of the in vitro binding of [3H] DP-5,6-ADTN to rat striatal membranes. *Dopaminergic Syst. Their Regul.*, [Proc. Symp.], Meeting Date 1984.
- Hazelhoff, B.; De Vries, J.; Dijkstra, D.; Mulder, T.; Timmermans, P.; Wynberg, H.; Horn, A. (1986) Neuropharmacological profile of a new series of dopamine agonists: N-n-propylhexahydronaphthoxazines. *Dopaminergic Syst. Their Regul.*, [Proc. Symp.], Meeting Date 1984.
- Van Oene, J. C.; De Vries, J. B.; Dijkstra, D.; Horn, A. S. (1986) N,N-di-n-Propyl-7-hydroxy-2-aminotetralin (DP-7-AT), a selective dopamine autoreceptor agonist? *Dopaminergic Syst. Their Regul.*, [Proc. Symp.], Meeting Date 1984.

Hazelhoff, Bernard; De Vries, Jan B.; Dijkstra, Durk; Mulder, Theo B. A.; Timmermans, Pieter B. M. W. M.; Wynberg, Hans; Horn, Alan S. (1986) Neuropharmacological profile of a new series of dopamine agonists: N-n-propylhexahydronaphthoxazines. *Eur. J. Pharmacol.*, 124(1-2), 93-106.

Hazelhoff, Bernard; De Vries, Jan B.; Dijkstra, Durk; Mulder, Theo B. A.; Timmermans, Pieter B. M. W. M.; Wynberg, Hans; Horn, Alan S. (1986) Neuropharmacological profile of a new series of dopamine agonists: N-n-propylhexahydronaphthoxazines. *Eur. J. Pharmacol.*, 124(1-2), 93-106.

Dijkstra, Durk; Hazelhoff, Bernard; Mulder, Theo B. A.; De Vries, Jan B.; Wynberg, Hans; Horn, Alan S. (1985) Synthesis and pharmacological activity of the hexahydro-4H-naphth[1,2b][1,4]-oxazines: a new series of potent dopamine receptor agonists. *Eur. J. Med. Chem.-Chim. Ther.*, 20(3), 247-50.

Hazelhoff, Bernard; De Vries, Jan B.; Dijkstra, Durk; De Jong, Wybren; Horn, Alan S. (1985) The neuropharmacological profile of N- methyl-N-propargyl-2-aminotetralin: a potent monoamine oxidase inhibitor. *Naunyn-Schmiedeberg's Arch. Pharmacol.*, 330(1), 50-8.

Mulder, Theo B. A.; Grol, Cor J.; Dijkstra, Durk; Horn, Alan S. (1985) Kinetic and pharmacological profiles of the in vitro binding of the potent dopamine agonist [³H]N,N-dipropyl-5,6-dihydroxy-2-aminotetralin to rat striatal membranes. *Eur. J. Pharmacol.*, 112(1) 73-9.

Horn, A. S.; Hazelhoff, B.; Dijkstra, D.; De Vries, J. B.; Mulder, T. B. A.; Timmermans, P.; Wynberg, H. (1984) The hydroxyhexahydronaphthoxazines: a new group of very potent and selective dopamine agonists. *J. Pharm. Pharmacol.*, 36(9), 639-40.

Hazelhoff, Bernard; De Vries, Jan B.; Dijkstra, Durk; Mulder, Theo B. A.; Horn, Alan S. (1985) N-Methyl,N-propargyl-2-aminotetralins: novel dopamine agonists with monoamine oxidase inhibiting properties. *Eur. J. Pharmacol.*, 109(2), 229-40.

Youde, Ian R.; Raxworthy, Michael J.; Gulliver, Peter A.; Dijkstra, Durk; Horn, Alan S. (1984) The metabolism of dopamine, N,N-dialkylated dopamines and derivatives of the dopamine agonist 2-amino-dihydroxy- 1,2,3,4-tetrahydronaphthalene (ADTN) by catechol-O-methyltransferase. *J. Pharm. Pharmacol.*, 36(5), 309-13.

Van Oene, Joop C.; De Vries, Jan B.; Dijkstra, Durk; Renkema, Riemer J. W.; Tepper, Pieter G.; Horn, Alan S. (1984) In vivo dopamine autoreceptor selectivity appears to be critically dependent upon the aromatic hydroxyl position in a series of N,N-disubstituted 2-aminotetralins. *Eur. J. Pharmacol.*, 102(1), 101-15.

Timmermans, Pieter B. M. W. M.; Mathy, Marie Jeanne; Wilffert, Bob; Kalkman, Hans O.; Smit, Gerard; Dijkstra, Durk; Horn, Alan S.; Van Zwieten, Pieter A. (1984) .alpha.1/.alpha.2-Adrenoceptor agonist selectivity of mono- and dihydroxy-2-N,N-di-n-propylaminotetralins. *Eur. J. Pharmacol.*, 97(1-2), 55-65.

Feenstra, M. G. P.; Van der Velden, T.; Dijkstra, D.; Hommes, O. R.; Horn, A. S. (1983) Inhibition of rat brain monoamine oxidase type A by 2-aminotetralin and tetrahydroisoquinoline analogs of dopamine. *Pharm. Weekbl., Sci. Ed.*, 5(4), 131-3.

Horn, A. S.; Griever-Kazemier, H.; Dijkstra, D. (1983) A neurochemical and behavioral study of four

prodrugs of 6,7-ADTN *Acta Pharm. Suec.*, (Suppl. 2, *Dopamine Recept. Agonists* 2), 75-82.

Feenstra, Matthijs G. P.; Rollema, Hans; Dijkstra, Durk; Homan, Jan- Willem; Mulder, Theo B. A.; Everts, Roelof; Westerink, Ben H. C.; Horn, Alan S. (1983) Brain concentrations of dopamine analogs: partition coefficients and biological effects. *Acta Pharm. Suec.*, (Suppl. 2, *Dopamine Recept. Agonists* 2), 206-10.

Van Oene, Joop C.; Houwing, Hendrik A.; Dijkstra, Durk; Horn, Alan S.(1983) Trans-N-n-propyl-7-hydroxy-octahydrobenzo(f)quinoline, a rigid 3-PPP analog with greater potency but lack of selectivity for dopamine autoreceptors. *Eur. J. Pharmacol.*, 87(4), 491-5.

Timmermans, P. B. M. W. M.; Wilffert, B.; Davidesko, D.; Mathy, M.J.; Dijkstra, D.; Horn, A. S.; Van Zwieten, P. A.(1983) Re-evaluation of the selectivity of 2-N,N-dimethylamino-5,6-dihydroxy-1,2,3,4-tetrahydronaphthalene (M-7) as an agonist of postjunctional alpha-2-adrenoceptors in the pithed normotensive rat. *J. Pharmacol. Exp. Ther.*, 225(2), 407-9.

Horn, Alan S.; De Vries, Jan; Dijkstra, Durk; Mulder, Arie H. (1982) Is TL-99 a selective presynaptic dopamine receptor agonist? *Eur. J. Pharmacol.*, 83(1-2), 35-45.

Feenstra, Matthijs G. P.; Homan, Jan Willem; Dijkstra, Durk; Mulder, Theo B. A.; Rollema, Hans; Westerink, Ben H. C.; Horn, Alan S. (1982) Reversed-phase liquid chromatography with amperometric detection of lipophilic dopamine analogs and determination of brain and serum concentrations after sample clean-up on small Sephadex G-10 columns. *J. Chromatogr.*, 230(2), 271-87.

Horn, A. S.; Griever-Kazemier, H.; Dijkstra, D.(1982) Brain levels and metabolism of the dopaminergic agonist 2-amino-6,7- dihydroxytetrahydronaphthalene after administration of various prodrugs *J. Med. Chem.*, 25(8), 993-6.

Horn, Alan S.; Dijkstra, Durk; Mulder, Theo B. A.; Rollema, Hans; Westerink, Ben H. C. (1981) Synthesis and activity of a metabolite of the dopaminergic agonist 6,7-ADTN. *Eur. J. Med. Chem. - Chim. Ther.*, 16(5), 469-72.

Grol, Cor J.; Dijkstra, Durk; Schunselaar, Wim; Westerink, Ben H. C.; Martin, Arnold R.(1982) Synthesis and pharmacological evaluation of conformationally restricted phenothiazine analogues. *J. Med. Chem.*, 25(1), 5-9.

Sumners, Colin; Dijkstra, Durk; De Vries, Jan B.; Horn, Alan S. (1981) Neurochemical and behavioral profiles of five dopamine analogs. *Naunyn-Schmiedeberg's Arch. Pharmacol.*, 316(4), 304-10.

Sumners, Colin; De Vries, Jan B.; Dijkstra, Durk; Horn, Alan S. (1981) Involvement of both dopaminergic and .alpha.-adrenergic receptors in the hypomotility induced by dibenzoyl-6,7-ADTN. *Eur. J. Pharmacol.*, 70(4), 541-50.

Horn, A. S.; Dijkstra, D.; Feenstra, M. G. P.; Grol, C. J.; Rollema, H.; Westerink, B. H. C.(1980) Prodrugs of some dopaminergic 2- aminotetralins: a review of their syntheses and neurochemical profiles.*Eur. J. Med. Chem. - Chim. Ther.*, 15(4), 387-92.

Feenstra, Matthijs G. P.; Rollema, Hans; Dijkstra, Durk; Grol, Cor J.; Horn, Alan S.; Westerink, Ben H. C. (1980) Effect of noncatecholic 2-aminotetralin derivatives on dopamine metabolism in the rat

striatum. *Naunyn-Schmiedeberg's Arch. Pharmacol.*, 313(3), 213-19.

Rollema, Hans; Westerink, Ben H. C.; Mulder, Theo B. A.; Dijkstra, Durk; Feenstra, Matthijs G. P.; Horn, Alan S. (1980) The significance of COMT activity in controlling dopamine agonist levels in brain and serum: studies with a prodrug and a metabolite of 6,7-ADTN. *Eur. J. Pharmacol.*, 64(4), 313-23.

Mulder, Arie H.; Braakhuis, Boudewijn; De Regt, Victoria; Dijkstra, Durk; Horn, Alan S. (1980) Effects of ADTN and various other 2-aminotetralin derivatives on the efflux of 3H-dopamine from rat striatal slices. *Eur. J. Pharmacol.*, 64(4), 349-55.

Horn, A. S.; De Kaste, D.; Dijkstra, D.; Rollema, H.; Van Oene, J.; Westerink, B. H. C.; Grol, C. J.; Feenstra, M. G. P. (1979) A dopaminergic prodrug derived from ADTN. *Med. Chem., Proc. Int. Symp.*, 6th, Meeting Date 1978, 451-60.

Westerink, Ben H. C.; Dijkstra, Durk; Feenstra, Matthijs G. P.; Horn, Alan S.; Rollema, Hans (1980) Selective storage in vivo of 5,6-ADTN in dopamine-rich areas of the rat brain. *Eur. J. Pharmacol.*, 64(2-3), 115-21.

Feenstra, Matthijs G. P.; Rollema, Hans; Horn, Alan S.; Dijkstra, Durk; Grol, Cor J.; Westerink, Ben H. C.; Westerbrink, Aaf (1980) Effect of dihydroxy-2-aminotetralin derivatives on dopamine metabolism in the rat striatum. *Naunyn-Schmiedeberg's Arch. Pharmacol.*, 310(3), 219-25.

Westerink, Ben H. C.; Dijkstra, Durk; Feenstra, Matthijs G. P.; Grol, Cor J.; Horn, Alan S.; Rollema, Hans; Wirix, Els (1980) Dopaminergic prodrugs: brain concentrations and neurochemical effects of 5,6- and 6,7-ADTN after administration as dibenzoyl esters. *Eur. J. Pharmacol.*, 61(1), 7-15.

Grol, Cor J.; Rollema, Hans; Dijkstra, Durk; Westerink, Ben H. C. (1980) Synthesis of isomeric thienobenzothiazines and their effect on dopamine metabolism in rat brain. *J. Med. Chem.*, 23(3), 322-4.

Horn, Alan S.; Kelly, Peter; Westerink, Ben H. C.; Dijkstra, Durk (1979) A prodrug of ADTN: selectivity of dopaminergic action and brain levels of ADTN. *Eur. J. Pharmacol.*, 60(1), 95-9.

Horn, A. S.; De Kaste, D.; Dijkstra, D.; Rollema, H.; Westerink, B. H. C.; Van Oene, J. C.; Feenstra, M. G. P.; Grol, C. J. (1979) The neurochemical profile of a prodrug of ADTN. *Catecholamines: Basic Clin. Front., Proc. Int. Catecholamine Symp.*

Horn, A. S.; De Kaste, D.; Dijkstra, D.; Rollema, H.; Feenstra, M.; Westerink, B. H. C.; Grol, C.; Westerbrink, A. (1978) A new dopaminergic prodrug. *Nature (London)*, 276(5686), 405-7.

Horn, A. S.; Grol, C. J.; Dijkstra, D.; Mulder, A. H. (1978) Facile syntheses of potent dopaminergic agonists and their effects on neurotransmitter release. *J. Med. Chem.*, 21(8), 825-8.