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Development of new muscarinic and β -adrenergic receptor radiopharmaceuticals for Positron Emission Tomography

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ABSTRACTS

Elsinga, P.H.; Van Waarde, A.; Vos, M.G.; Weemaes, A.M.A.; Anthonio R.L.; Visser, T.J.; Visser, G.M.; Vaalburg, W.; Ensing, K.; Van der Mark, T.W. PET imaging of pulmonary β_2 -adrenoceptors with S-1'-[^{18}F]fluorocarazolol (American Thoracic Society, Boston MA, 1994, poster presentation).

Van Waarde, A.; Visser, T.J.; Weemaes, A.M.A.; Anthonio, R.L.; Posthumus, H.; Visser, G.M.; Blanksma, P.K.; Paans, A.M.J.; Vaalburg, W. Metabolism of (S)-CGP-12177 in humans and rats. *J. Nucl. Med.* 1994, 35, 157P.

Elsinga, P.H.; Van Waarde, A.; Visser, G.M.; Willemsen, A.T.M.; Visser, T.J.; Van der Mark, T.W.; Vaalburg, W. [^{18}F]Fluorocarazolol voor onderzoek van de β -receptoren in de longen. *Nucl. Geneesk. Bull.* 1994, 16, 92-93.

Anthonio, R.L.; Van Waarde, A.; Willemsen, A.T.M.; Visser, T.J.; Elsinga, P.H.; Meeder, J.G.; Weemaes, A.M.A.; Schmeits, R.J.A.; Pruijm, J.; Visser, G.M.; Blanksma, P.K.; Van Gilst, W.H.; Lie, K.I.; Vaalburg, W. Myocardiale β -receptor dichtheid kwantificatie in 480 segmenten gemeten met Positron Emissie Tomografie. *Nucl. Geneesk. Bull.* 1994, 16, 93.

Van Waarde, A.; Elsinga, P.H.; Visser, T.J.; Weemaes, A.M.A.; Visser, G.M.; Van der Mark, T.W.; Kraan, J.; Pruijm, J.; Paans, A.M.J.; Vaalburg, W. Evaluation of (S)-1'-[^{18}F]fluorocarazolol for in vivo studies of beta-adrenoceptors. *J. Nucl. Med.* 1995, 36, 59P.

Elsinga, P.H.; Visser, T.J.; Visser, G.M.; Vaalburg, W. Synthesis of [^{11}C]ureas by [^{11}C]carbonylation of amines. *J. Label. Comp. Radiopharm.* 1995, 36, 81-83 (oral presentation Vancouver, Canada).

Visser, T.J.; Van Waarde, A.; Visser, G.M.; Van der Mark, T.W.; Kraan, J.; Ensing, K.; Vaalburg, W. Novel, diastereoselective synthesis of potent [C-11]-labelled antagonists for quantification of pulmonary muscarinic receptors with PET. *J. Label. Comp. Radiopharm.* 1995, 36, 362-364, (oral presentation, Vancouver, Canada).

Visser, T.J.; Van Waarde, A.; Visser, G.M.; Van der Mark, T.W.; Kraan, J.; Ensing, K.; Vaalburg, W. Towards a suitable radioligand for PET imaging of airway cholinceptors. 1995 (poster presentation, ERS, Barcelona).

Van Waarde, A.; Elsinga, P.H.; Visser, T.J.; Visser, G.M.; Van der Mark, T.W.; Ensing, K.; Paans, A.M.J.; Vaalburg, W. Imaging of myocardial and pulmonary β -adrenoceptors with S-[1'- ^{18}F]fluorocarazolol. *Pharmacy World & Science* 1995, 17 (6), 12 (supplement 0), (oral presentation).

Visser, T.J.; Van Waarde, A.; Visser, G.M.; Van der Mark, T.W.; Kraan, J.; Ensing, K.; Vaalburg, W. Towards a suitable radioligand for PET imaging of pulmonary cholinceptors. *Pharmacy World & Science* 1995, 17 (6), 7 (supplement 0).

Van Waarde, A.; Visser, T.J.; Elsinga, P.H.; Pruim, J.; Van der Mark, T.W.; Kraan, J.; Ensing, K.; De Jong, B.M.; Jansen, T.H.J.; Visser, G.M.; Paans, A.M.J.; Vaalburg, W. First delineation of β -adrenoceptors in the human brain using fluorocarazolol-PET. *J. Nucl. Med.* **1996**, *37*, 11p (oral presentation, SNM, Denver, USA).

Visser, T.J.; Van Waarde, A.; Visser, G.M.; Jansen, T.; Van der Mark, T.W.; Kraan, J.; Ensing, K.; Vaalburg, W. [C-11]-labelled high affinity ligands for PET-imaging of pulmonary cholinceptors: distribution, metabolism and clearance in rats. *J. Nucl. Med.* **1996**, *37*, 108p (oral presentation, SNM, Denver, USA).

Visser, T.J.; Van Waarde, A.; Van der Mark, T.W.; Kraan, J.; Elsinga, P.H.; Pruim, J.; Ensing, K.; Jansen, T.; Franssen, E.J.F.; Visser, G.M.; Paans, A.M.J.; Vaalburg, W. Characterization of thoracic β -adrenoceptors in healthy volunteers using fluorocarazolol-PET. *J. Nucl. Med.* **1996**, *37*, 71p (oral presentation, SNM, Denver, USA).

Visser, T.J.; Van Waarde, A.; Van der Mark, T.W.; Kraan, J.; Elsinga, P.H.; Pruim, J.; Ensing, K.; Jansen, T.H.J.; Visser, G.M.; Paans, A.M.J.; Vaalburg, W. PET imaging of myocardial and pulmonary beta adrenoceptors in healthy volunteers. *Am. J. Respir. Crit. Care Med.* **1996**, *153*, A383 (poster presentation, ATS, New Orleans, USA).

Van Waarde, A.; Visser, T.J.; Elsinga, P.H.; De Jong, B.M.; Kraan, J.; Van der Mark, T.W.; Ensing, K.; Pruim, J.; Paans, A.M.J.; Vaalburg, W. Positron emission tomography of beta-adrenoceptors in the human brain using S-1'-[¹⁸F]fluorocarazolol. *Eur. J. Nucl. Med.* **1996**, *23*, 1138, (oral presentation, EANM, Copenhagen, Denmark).

Visser, T.J.; Wegman, T.; Van Waarde, A.; Doze P.; Elsinga P.H.; Vaalburg, W. Synthesis and preliminary evaluation of a new radioligand for the visualization of cerebral muscarinic receptors with PET. *J. Nucl. Med.*, **1997**, *38*, 66p (oral presentation, SNM, San Antonio).

Elsinga P.H.; Van Waarde, A.; Doze, P.; Visser, T.J.; Heldoorn, M.; Jaeggi, K.A.; Vaalburg, W. One-pot synthesis of [¹¹C]-labelled beta-adrenergic ligands from [¹¹C]acetone. **1997** (oral presentation, Uppsala, Sweden).

Visser, T.J.; Wegman, T.; Van Waarde, A.; Doze P.; Elsinga P.H.; Vaalburg, W. Synthesis and biodistribution of a new [C-11]-labelled antagonist for visualization of cerebral muscarinic receptors. **1997** (poster presentation, Uppsala, Sweden).

Visser, T.J.; Van Waarde, A.; Elsinga, P.H.; Doze, P.; Van der Mark, Th.W.; Kraan, J.; Ensing, K.; Vaalburg, W. Synthesis and evaluation of [C-11]formoterol, a selective β_2 -adrenoceptor agonist. **1997** (oral presentation, Uppsala, Sweden).

Visser, T.J.; Van Waarde, A.; Van der Mark, T.W.; Kraan, J.; Ensing, K.; Que, L.; Vaalburg, W. Visualization of airway cholinceptors in humans. Submitted ERS, Berlin **1997**.

Sarkadi, E.; Elsinga, P.H.; Visser, T.J.; Luurtsema, G.; Vaalburg, W.; Kovács, Z. The search for the source of carrier carbon during [¹¹C]COCl₂ production. **1997** (poster presentation, Uppsala, Sweden).