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INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶: A61K 51/00, A61M 36/14, C07F 5/00, 13/00	A1	(11) International Publication Number: WO 96/31243 (43) International Publication Date: 10 October 1996 (10.10.96)
(21) International Application Number: PCT/US96/04567 (22) International Filing Date: 3 April 1996 (03.04.96) (30) Priority Data: 08/415,908 3 April 1995 (03.04.95) US (71) Applicant: THE DU PONT MERCK PHARMACEUTICAL COMPANY [US/US]; 1007 Market Street, Wilmington, DE 19898 (US). (72) Inventors: EDWARDS, David, Scott; 123 Farms Drive, Burlington, MA 01803 (US). LIU, Shuang; 17 Judith Road, Chelmsford, MA 01824-4742 (US). (74) Agent: BOUDREAUX, Gerald, J.; The du Pont Merck Pharmaceutical Company, Legal/Patent Records Center, 1007 Market Street, Wilmington, DE 19898 (US).	(81) Designated States: AU, BR, CA, CN, CZ, EE, HU, JP, KR, LT, LV, MX, NO, NZ, PL, RO, SG, SI, SK, UA, VN, Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). Published <i>With international search report. Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i>	
(54) Title: TERNARY RADIOPHARMACEUTICAL COMPLEXES (57) Abstract This invention provides novel radiopharmaceuticals which are useful as imaging agents for the diagnosis of cardiovascular disorders, infectious diseases and cancer. The radiopharmaceuticals are comprised of phosphine or arsine ligated technetium-99m labeled hydrazino or diazino modified biologically active molecules that selectively localize at sites of disease and thus allow an image to be obtained of the loci using gamma scintigraphy. This invention also provides methods for using the radiopharmaceuticals and kits comprising radiopharmaceutical precursors. The radiopharmaceuticals of this invention have the structure: $[(Q)_x(L_1-CR)_n-M(A_{L1})_y(A_{L2})_z]$; wherein the variables are as defined herein.		