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INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 6: C12N 5/08, G01N 33/537	A1	(11) International Publication Number: WO 91/14768 (43) International Publication Date: 3 October 1991 (03.10.91)
(21) International Application Number: PCT/AU91/00115 (22) International Filing Date: 27 March 1991 (27.03.91) (30) Priority data: 499,932 27 March 1990 (27.03.90) US (60) Parent Application or Grant (63) Related by Continuation US 499,932 (CIP) Filed on 27 March 1990 (27.03.90) (71) Applicant (for all designated States except US): GENETYPE A.G. [CH/CH]; Neugasse 11, CH-6300 Zug (CH).	(72) Inventor; and (75) Inventor/Applicant (for US only): SIMONS, Malcolm, J. [NZ/AU]; Breakneck Road, Fryerstown, VIC 3451 (AU). (74) Agent: WATERMARK PATENT & TRADEMARK ATTORNEYS; 2nd Floor, The Atrium, 290 Burwood Road, Hawthorn, VIC 3122 (AU). (81) Designated States: AT, AT (European patent), AU, BB, BE (European patent), BF (OAPI patent), BG, BJ (OAPI patent), BR, CA, CF (OAPI patent), CG (OAPI patent), CH, CH (European patent), CM (OAPI patent), DE, DE (European patent), DK, DK (European patent), ES, ES (European patent), FI, FR (European patent), GA (OAPI patent), GB, GB (European patent), GR (European patent), HU, IT (European patent), JP, KP, KR, LK, LU, LU (European patent), MC, MG, ML (OAPI patent), MR (OAPI patent), MW, NL, NL (European patent), NO, PL, RO, SD, SE, SE (European patent), SN (OAPI patent), SU, TD (OAPI patent), TG (OAPI patent), US. Published With international search report.	
(54) Title: FETAL CELL RECOVERY METHOD (57) Abstract The present invention provides a method for selectively recovering fetal cells from a maternal blood sample. The method is performed on a blood sample from a pregnant woman having different first and second cell surface antigens expressed by a first allele of a polymorphic genetic locus and a second allele of a polymorphic genetic locus. The method separates maternal and fetal cells based on differential reactivities of the cells to antibodies specific for polymorphic cell surface antigens, particularly the HLA antigens. In particular, the fetal and maternal cells are separated based on the non-reactivity of the fetal cells to an antibody specific for a cell surface antigen encoded by a non-transmitted maternal allele. The method can be performed using solid phase-affixed antibody and recovering non-bound cells or using fluorescent labeled antibody and recovering unlabeled cells by fluorescence-activated cell sorting. In a preferred embodiment, the cells are also contacted with a second antibody specific for the second cell surface antigen. Fetal cells are separated based on their reaction with, at most, one of the antibodies.		

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