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(54) **Title**: NOVEL IL-17A BINDING MOLECULES AND MEDICAL USES THEREOF

(57) **Abstract**: The present invention relates to a polypeptide inhibiting the activity of glycosylated IL-17A, wherein the polypeptide comprises or consists of an amino acid sequence selected from the group consisting of: (a) GVTLFVALYDY(X^1)(X^2)(X^3)(X^4)(X^5)(X^6)DLSFHKGEKFQIL STHEYEDWWEARSLTTGETGYIPSNYVAPVDSIQ (SEQ ID NO: 1), wherein amino acid positions (X^1) to (X^6) may be any amino acid sequence; and (b) an amino acid sequence which is at least 85% identical to the amino acid sequence of (a), wherein the identity determination excludes amino acid positions (X^1) to (X^6) and provided that the amino acid sequence STHEYE (SEQ ID NO: 2) in amino acid positions 31 to 36 of SEQ ID NO: 1 is conserved. The invention also relates to fusion constructs, compositions and medical uses comprising said polypeptide.