

# "In vitro" response of fibroblasts from genital skin to androgens Respuesta in vitro de fibroblastos de piel genital humana a andrógenos

Mireya Fernández, G.

Xiniena Vivanco, W.

Marcela Palma, M.

Ana María Pino, Z.

Defects of androgen receptor gen (Xc 11-12) leadre cellular insensitivity to these steroids. Androgen action is curently measured 'in vitro' in cultures of fioblasts from genral skin, since expression of the androgen receptor occurs is these cells. This method has so been usaly available in Chile. This work was aimed to develop and aoply a method to study androgen binding and response properties in normal 46XY, hypospadiacs and androgen insensitive ndividuals. Cell cultures of our subjects showed the tipicol prooerties of fioblasts, and their androcen binding ndicators were similar to those previously reported. Mean dissociation constant was  $4.02 \pm 3.4 \times 10^{-10}$  M. Mean rnextima binding capacity in normal controls ( $41.3 \pm 23$  frnol/mg prot.) was rot different from than of patients with hypospadiacs or androgen rsensitivity ( $39.3 \pm 32$  y  $34.1 \pm 20$ , respectively), but binding after androgen treatment for 24 h was significantly higher in controls than in both kincs of patients. Thus, this met