# 行政院國家科學委員會專題研究計畫　期中進度報告

## 雙截切連續事件資料之分析(1/2)

計畫類別：個別型計畫
計畫編號：NSC91-2118-M-002-003-
執行期間：91 年 08 月 01 日至 92 年 07 月 31 日
執行單位：國立臺灣大學公共衛生學院公共衛生學系

計畫主持人：張淑惠

報告類型：精簡報告

處理方式：本計畫可公開查詢

中　華　民　國 92 年 6 月 2 日

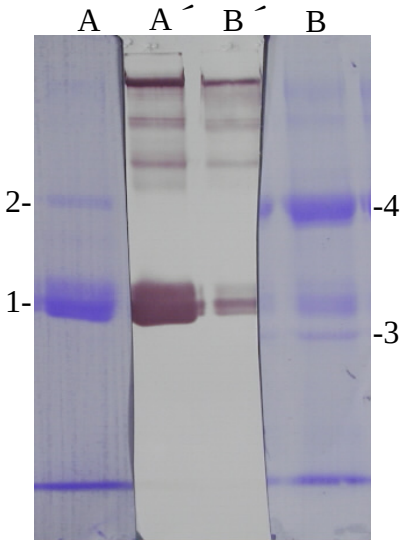



**Figure 1.** Western blot indicating the specific proteins recognized by rabbit antiserum against crude progesterone receptor proteins. A & different fractional membrane proteins pu progesterone-conjugated affinity column were separated by SDS-PAGE. A´ & B´ respectively corresponding to A & B, were furthe processed western blot with rabbit antiserum. The major apparen molecular mass (app. 72-80 kDa, protein 1) were revealed by rab antiserum combined with peroxidase-conjugated goat anti-rabbit IgG. However, protein 2 (127 kDa), 3 (64 kDa) and 4 (125 kDa) are other major proteins that didn't recognized by rabbit antiserum.

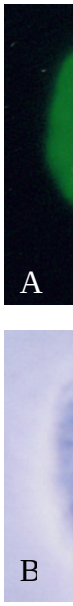



**Figure 2.** Immnunoreactivity of antibodies from rabbit antise against pig crude progesterone receptor proteins using immunofluorescene (A). Intense fluorescene had been observed ove the whole acrosomal region. Control rabbit serum did not react sperm. The conformation of the sampe sperms with intact plası membrane is made visible under a light microscope fluorescence was observed when 1st antibody was omitted.

**Table 1.** Effect of antibodies from rabbit antiserum against crude progesterone receptor proteins on sperm motility (means ± SD).

| | Control | Male 1 | Male 2 | Female 1 | Female 2 |
|---|---|---|---|---|---|
| Activated serum | 80±10[a] | 40±23[b] | 29±18[b] | 2±3[c] | 15±7[c] |
| Inactivated serum* | 82±8 | 65±15 | 80±17 | 75±13 | 69±17 |

***Inactived serum:** serum were heat-treated at 56℃ for 30 min to inactivate complement.

[a,b,c]different superscripts are significantly different ($p < 0.05$ to $p < 0.001$) and same superscripts are non-significant ($p > 0.05$).

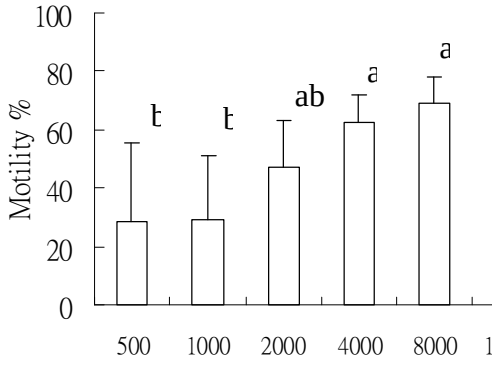
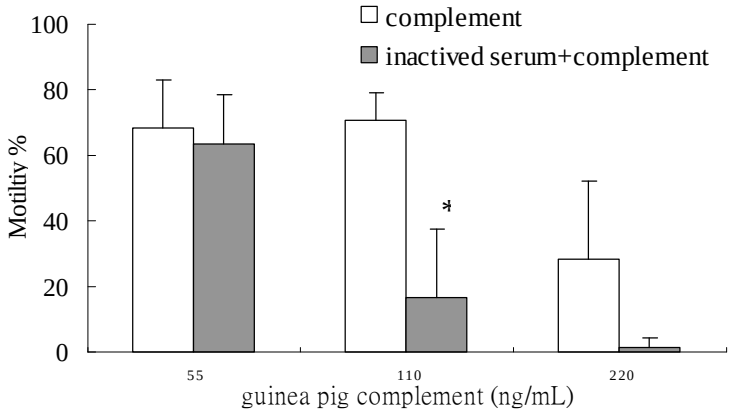



**Figure 3.** Effects of dilution of rabbit a (female 1) on spermmotility in the presence complement (55ng/mL). Bars represe [a,b]different superscripts are significantly diffe and same superscripts are non-significant (p > 0



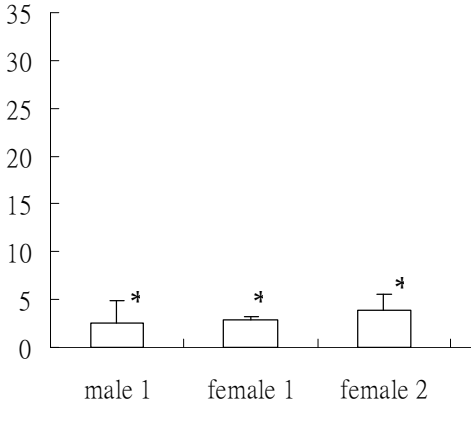



**Figure 4.** Effect of inactived rabbit anti-PRs antiserum (female 1, 1:10) combined with guinea pig complement on sperm motility. Bars represent mean ± SD.* $p < 0.05$ compared with the control, which had the same complement concentration as the treatment but without inactivated antiserum.

**Figure 5.** Effect of different inactived rabbit an
female 2 & 3) against crude PR proteins
binding assay. Sperm were preincub
capacitation, and then co-incubated rabbit antis
not for 1 h. After incubation, 3000 motile sper
to medium containing salted piglet oocy
represent mean ± SD. * $p < 0.05$ compared with