**Calcineurin role in porcine oocyte activation**

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**Supplementary material**

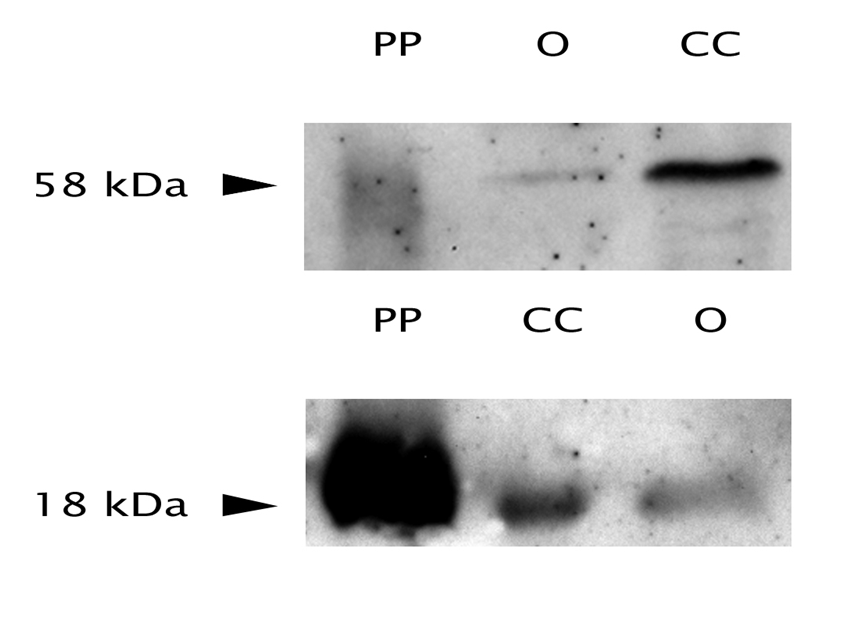
**Supplementary Table S1** Degree of cortical granule exocytosis in *in vitro* matured porcine oocytes after treatment with cyclosporin A and calcium ionophore

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Group | | | |  |
| CGE level (%) | CsA + Ca-Io | CsA | Ca-Io | Control - MII | *P*-value |
| Complete exocytosis | 2.6a | 0.0a | 83.9b | 0.0a | 0.00 |
| Medium exocytosis | 10.3 | 6.9 | 16.1 | 0.0 | 0.40 |
| Low exocytosis | 48.6a | 10.3ab | 0.0b | 35.0a | 0.04 |
| No exocytosis | 38.5a | 82.8b | 0.0c | 65.0ab | 0.01 |
| n | 39 | 29 | 31 | 20 |  |

CsA = cyclosporin A; Ca-Io = calcium ionophore A23187; MII = oocyte at metaphase II stage; n = number of oocyte assessed.

a,b,c Values within a rows with different superscripts differ significantly at P<0.05.

**Supplementary Figure S1** Calcineurin subunit determination by Western blotting



Western blotting calcineurin A (58 kDa) and B (18 kDa) detection.

PP = calcineurin pure protein from porcine brain 5 ng

O = 250 oocytes at second meiotic metaphase stage

CC = cumulus cells from 250 oocytes at second meiotic metaphase stage

**Supplementary Figure S2** Calcineurin subunit localization by immunocytochemical detection

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**Supplementary Figure S3** Co-localization of cortical granules (CG) with calcineurin subunits

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**Supplementary Figure S4** Cortical granules exocytosis after calcineurin inhibition

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a = CsA and Ca-Io group

b = CsA group

c = Ca-Io group

d = control group with oocytes at the stage of second meiotic metaphase