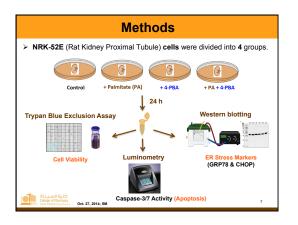
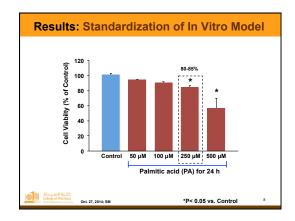
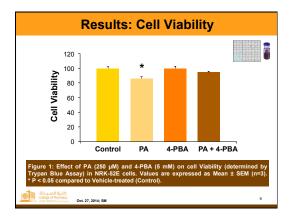
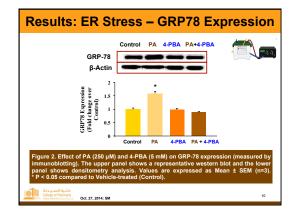


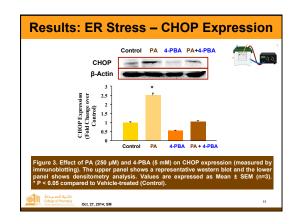
SM 1

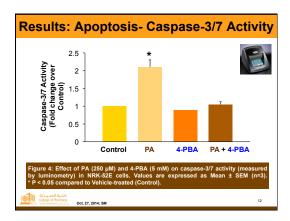












SM 2



- Exposure of NRK-52E cells to PA resulted in
 - Significant decrease in cell viability (Renal Cell Death)
 - ❖ Induction of ER stress markers (û GRP78 and CHOP)
 - Increased caspase-3/7 activity (Apoptosis)
- 4-PBA treatment protected cells from PA-induced ER stress and (apoptotic) cell death.
- 4-PBA acts as "nephroprotectant" and prevents fatty acid-induced ER stress and apoptosis in renal cells.
- Further studies in vivo are required to validate the therapeutic potential of 4-PBA to prevent the development of CKD during obesity.



Acknowledgements

PHAR445 and PHAR545 Students

Dania Alkhiyami
Atefeh Moeinzadeh
Souad Berzou
Hebatalla Mohamed

Technical Support:
Alaaedin Saleh, M.Sc.
Dr. Ali Eid
Dr. Fatima Mraiche

Financial Support: Office of Academic Research, Qatar University (#QUST-CPH-FALL-12/13-6 and #QUST-CPH-SPR-12/13-3).



SM 3