Stellingen (Propositions)

Behorende bij het proefschrift

Cell adhesion signalling in acute renal failure

1. Cell-cell and cell-matrix adhesions provide epithelial cells with environmental signals necessary to maintain normal cellular processes including cell survival, whereas loss of cell adhesion induces cell death through apoptosis. (This thesis)

2. Renal ischemia causes disruption of the F-actin cytoskeleton together with dephosphorylation and restructuring of focal adhesions. (This thesis)

3. FAK is a novel factor in the initiation of JNK-mediated cellular stress response during renal ischemia/reperfusion injury. (This thesis)

4. Epac activation represents a novel therapeutic strategy for reducing renal failure during early ischemia/reperfusion injury or associated with cisplatin-based cancer chemotherapy. (This thesis)


8. Disruption of adhesion protein complexes in cisplatin-induced nephrotoxicity may be partly independent of DNA damage, but being a result of direct protein or lipid modifications or generation of reactive oxygen species. (Ma SF, et al. Kidney Int 2007; 72: 1474-1482)

9. Learning without thought is labour lost; thought without learning is perilous. (Confucian Analects)

10. Communication is essential in both cell culture and human society.

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