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Calpain activity and sperm penetration assay in unexplained infertile man

Association of sperm calpain, a calcium dependent protease, with cell fusion and signal transduction processes can take place during penetration of the oocyte. This experiment was done to examine the sperm function, sperm penetration assay parameters and to assess the effects of calpain on the fertilization capacity. The study was carried out on infertile men especially the unexplained ones as well as fertile men through assisted reproductive technologies like ICSI and IVF, and using hamster oocytes as a model for human. The results showed a highly significant difference in calpain activity parameters between the 2 groups and not very significant within the same group. It was concluded that high calpain activity is associated with high sperm function and penetration parameters indicating high potential of oocyte fertilization.

Biography

Sabah Alwachi has completed his PhD from Edinburgh University, UK. He is the co-director of International Cultural Relations, University of Baghdad, Head of Biology department and a Professor of Physiology. He has published 16 scientific books and more than 51 research papers in reputed journals. He has also supervised 66 PhD and MSc Post-graduate students, has been serving as an Editorial Board Member of many scientific journals and a member of many world scientific societies.

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