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Studies on sperm chromatin structure alterations and cytogenetic damage of mouse sperm following in vitro incubation. Studies on in vitro-incubated mouse sperm

A. M. Estop, S. Munne, L. K. Jost and D. P. Evenson Department of Medical Genetics, West Penn Hospital, Pittsburgh, Pennsylvania 15224.

Mouse epididymal sperm incubated in Tyrode's T6 fertilization media were analyzed over time for chromosome damage by two methods. First, cytogenetic analysis was done on paternal pronuclei metaphase chromosomes. After 6 hours incubation 11% of the cells demonstrated chromosome structural abnormalities. Secondly, sperm nuclei were

measured by the sperm chromatin structure assay, which is a measure of the susceptibility of sperm DNA to the nuclei demonstrated an increased susceptibility to DNA denaturation, reaching near 100% by 48 hours. Changes in chromatin structure at the molecular level may lead to chromosome breaks seen in pronuclear chromosomes.

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