

MEET THE EXPERTS



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Electrophoresis in comet assay: an essential stage which is often misunderstood.

Electrophoresis is a mandatory and crucial step in comet assay. The chemistry and physics of the process is well understood, but this knowledge is often overlooked in the comet assay community. Historically misconceptions have lead to bad comet assay data and differences in result: obtained in different laboratories.

A set of simple practical rules – if adhered to – will ensure optimal electrophoresis conditions and should contribute to more reliable and homogenous comet assay results.

Use of placental cells in comet assay

Placenta cells have been used for the evaluation of prenatal exposure-induced developmental toxicity, being a useful non-invasive biomatrix. With only a few published studies analyzing DNA damage using comet assay in cells isolated from human placentas, either for cell characterization or for genotoxicity testing, protocol refinement and harmonization is now of great relevance to successfully conduct the assay on this matrix.



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Related papers

10.1016/j.mrgentox.2020.503146
10.1016/j.mrgentox.2011.05.010
10.1016/j.taap.2019.114635
10.3892/mmr.2012.1000



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