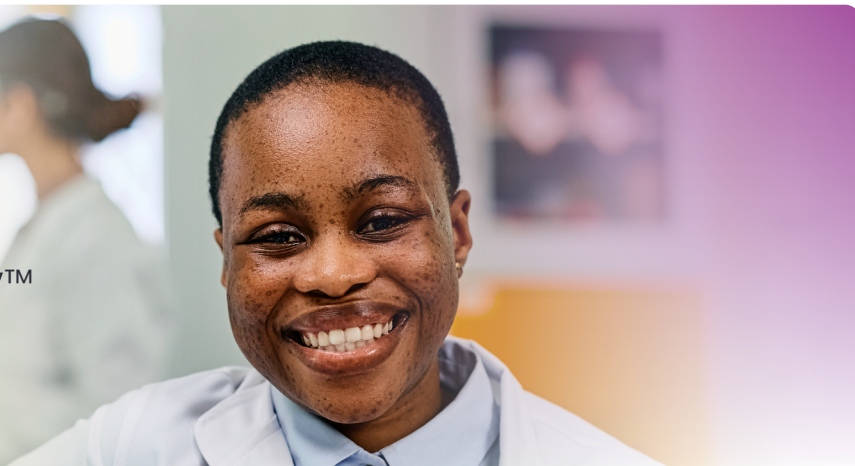




Comet Assay IV™

Live video measurement system
for the comet assay



Do you want to join the industry leaders in comet assay scoring?

With Comet Assay IV, you can!

The majority of scientific publications, pharmaceutical investigations and regulatory testing all use Comet Assay IV for their genotox analysis. What's more, Comet Assay IV is the system of choice for the working group who developed the comet assay OECD guideline.

Comet Assay IV is a live video imaging system designed for those seeking fast, accurate and reproducible comet slide scoring. The unique single-click scoring method and instant live video technology make it the most efficient and easy-to-use system available for measuring DNA damage using single cell gel electrophoresis. There are no complicated parameters to adjust and no hardware to install – simply connect the camera and you're ready to start scoring!

By using the mouse to click once on each cell, you can typically score all the cells on a single comet slide within two minutes! Comet Assay IV can score many different types of cell; regardless of species, cell size and level of DNA damage. Comet Assay IV uses the parameters defined by Olive et al on the principle of DNA damage and comets are scored appropriately.

With its outstanding functionality and enviable reputation, it is clear to see why Comet Assay IV is the market-leading comet scoring system, with over 500 systems in use at academic, CRO and pharmaceutical laboratories worldwide!

Key Highlights

Increase speed

Single click automatic scoring in Comet Assay IV enables you to score comets from a live video. This makes Comet Assay IV the fastest and easiest way to score comets. Improve your laboratory's productivity today!

Boost accuracy

With no adjustable settings or tricky configurations to modify, we have eliminated all subjectivity from the scoring process. Comet Assay IV automatically compensates uneven backgrounds or varying levels of brightness, ensuring comparable and reproducible results across a wide range of slides.

Comprehensively analyze

Our integrated hedgehog counter ensures you capture and record all cells, even those with the most damage. All the parameters you need for your analysis: Tail % DNA, tail moment, tail length and more!

Evaluate

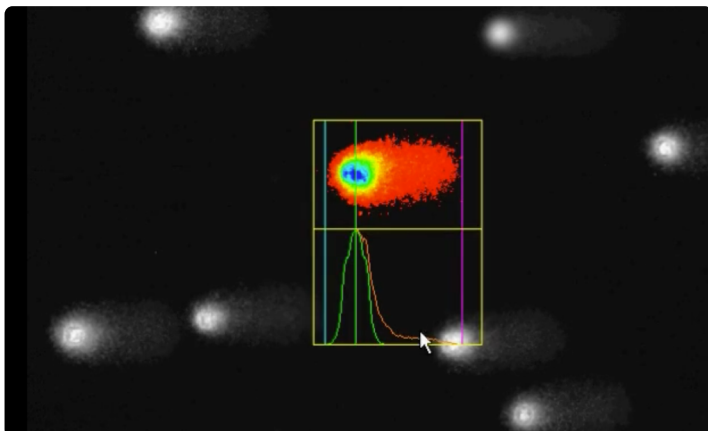
Graph and chart your Comet Assay IV data and use powerful macros to compare data across dose ranges. Include statistics, log transforms and frequency distribution graphs in your analysis using our Excel-based tool.

Ensure compliance

Work securely in the knowledge that your system is GLP and FDA 21 CFR compliant. We also offer an additional optional module, Data Extractor, which allows you to browse, sort and filter your result and audit data, you can also review, approve or reject your data.

Integrated study management

Combine Comet Assay IV with our world-leading genotox study management solution, Cyto Study Manager, for fully integrated data collection, management and reporting.



Free Trial

Try Comet Assay IV for one week for free when you download our trial version of the software.

Contact genetox@instem.com for details

Scientific Leadership

Comet Assay IV delivers accurate and reproducible comet results. That's why hundreds of experts around the world choose to use Comet Assay IV in their laboratories. The internationally recognized OECD guideline for the comet assay was developed using a multinational working group who choose Comet Assay IV for their experiments. We are extremely proud of the dependability and reputation of Comet Assay IV.

You work to GLP and so do our genetox solutions...

All of Instem's genetox solutions are designed with reference to the OECD and S2(R1) guidelines. We ensure our solutions are fully compliant with the principles of Good Laboratory Practice (GLP) and the FDA 21 CFR part 11 rule on electronic signatures.



Audit Trails

All actions, such as creating, editing and deleting data, are traceable and recorded within the audit trail. Users can be asked to justify actions or for unique electronic signatures to confirm their identity. The audit trail is encoded; only users with the correct permissions can view it.



User Access & 21 CFR Compliance

Our user access management program, System Access Manager, strengthens compliance by managing and maintaining user access in line with FDA 21 CFR part 11. Users are assigned unique user IDs and access levels to our genetox solutions. We use a wide range of password rules including expiry, length, and use of characters/numbers.

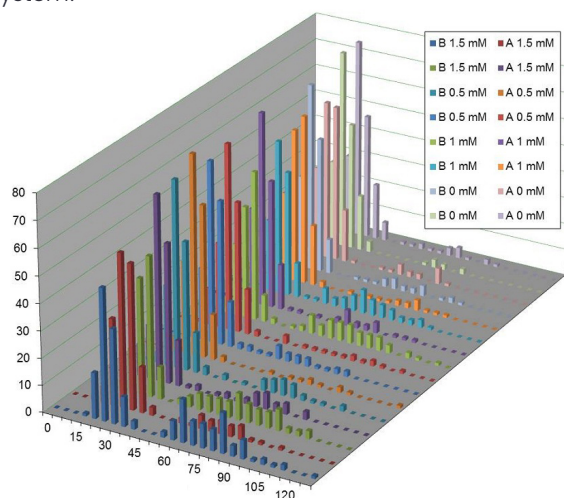


Validation

Speak to us today to learn how we can help with your system validation. Our risk-based validation package ensures you can "go live" with our genetox solutions quicker than ever before! We can provide validation scripts, testing documentation and even help with onsite user acceptance testing.

System Capabilities

- **Configure** – to work for you and your experimental set up
- **Calibrate** – for accurate results
- **Annotate files** – for easy sample identification
- **Score comets** – from live video or images
- **Visualize** – with pseudo color
- **Measure** – all comet parameters
- **Count** – hedgehogs or highly damaged cells
- **Edit** – if desired
- **Process** – your data electronically
- **Graph** – your results with the Spreadsheet Generator
- **Transfer** – data to an Oracle database (if required)
- **Be compliant** – with FDA 21 CFR regulations
- **Audit** – all actions
- **Control** – user access
- **Validate** – your experiments with confidence
- **Get Help** – from our secure on-line customer support area
- **Publish** – excellent quality data from a reputable scoring system!



SaaS platforms for R&D that drive discovery, accelerate studies, and advance your research.

A global provider of leading software solutions and scientific insight services, Instem is helping clients to bring their life-enhancing products to market faster.

We enable organizations in the life sciences to efficiently collect, report and submit high-quality regulatory data while offering the unique ability to generate new knowledge through the extraction and harmonization of actionable scientific information.

Instem solutions are meeting the rapidly expanding needs of life science organizations for data-driven decision-making, leading to safer, more effective products.