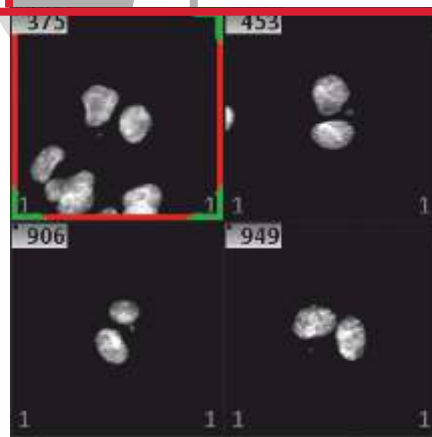
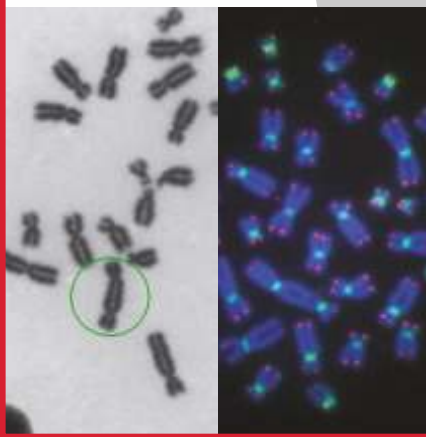


# Biodosimetry Assays

Standardized and Automated Application Packages

Dicentric Scoring



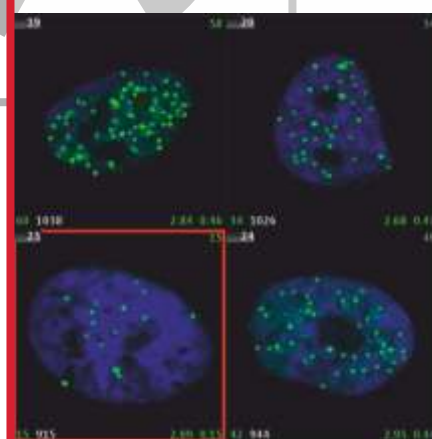
Micronuclei

There is consensus that forming international scientific biodosimetry networks is an important element of preparedness to radiation accidents.

However, though many biodosimetry assays are well defined from a scientific point of view, sample analysis often is not. This impedes comparisons of results and the definition of global biodosimetry standards.

The slide scanning software Metafer closes this gap by assessing all relevant biodosimetry assays automatically - reliably, extremely fast, and in an easy to standardize manner.

FOCI

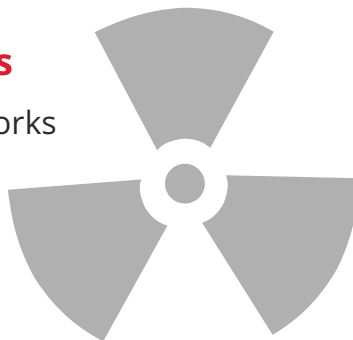


PCC



## Metafer Biodosimetry Projects

Many members of biodosimetry networks use Metafer to standardize their microscope based analysis tasks and to exchange results between the partner institutes. Below is a list of the latest publications of project results obtained with Metafer.



Integration of new biological and physical retrospective dosimetry methods into EU emergency response plans - joint RENEB and EURADOS inter-laboratory comparisons. *E. Ainsbury et al., Int.J.Radiat.Biol. 93(2017).*


The second gamma-H2AX assay inter-comparison exercise carried out in the framework of the European biodosimetry network (RENEB).

*J. Moquet et al., Int.J.Radiat.Biol. 93(2017).*

CytoRADx: a high-throughput, standardized biodosimetry diagnostic system based on the cytokinesis-block micronucleus assay. *C. Capaccio et al., Radiat. Res. 196(2021).*

Refined premature chromosome condensation (G0-PCC) with cryo-preserved mitotic cells for rapid radiation biodosimetry. *U. Yadav et al., Nature Sci. Rep. 11(2021).*

The described functions refer to the following software versions: **Metafer 4.3**

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MetaSystems products are used in many countries worldwide. Depending on the regulations of the respective country or region, some products may not be used for clinical diagnostics.

Some hardware components supplied by other manufacturers are not included in MetaSystems IVD products and are therefore not IVD medical devices.

The application packages presented here are application-specific adaptations of the Metafer software. It is possible that further adaptations to specific specimen conditions are necessary.

## WORLDWIDE OFFICES

### EUROPE

**Germany, Altlussheim**  
info@metasystems-international.com

**Italy, Milan**  
info@metasystems-italy.com

### AMERICAS

**USA, Medford**  
info@metasystems.org

**Argentina, Buenos Aires**  
info@metasystems-latam.com

### ASIA

**China, Hong Kong**  
info@metasystems-asia.com

**China, Taizhou**  
info@metasystems-china.com

**India, Bangalore**  
info@metasystems-india.com

## CONTACT US

OR YOUR LOCAL  
**MetaSystems**  
REPRESENTATIVE



[metasystems-international.com](http://metasystems-international.com)

**MetaSystems Hard & Software GmbH**  
Robert-Bosch-Str. 6  
68804 Altlussheim | Germany

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