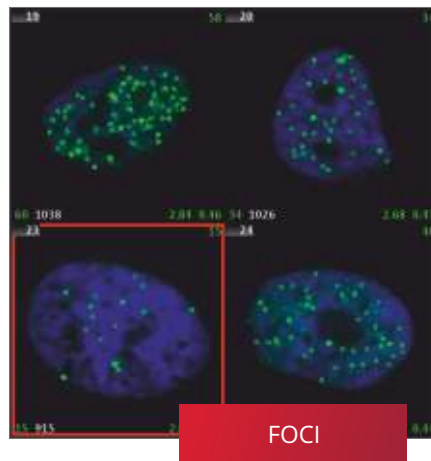
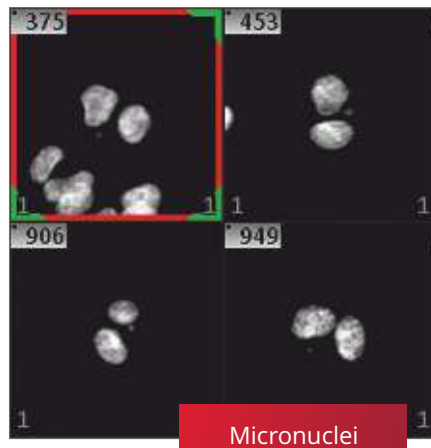
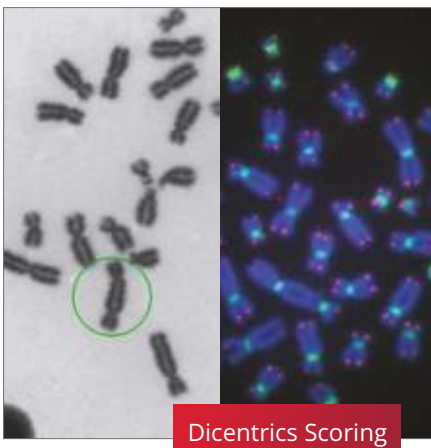


# Metafer

Standardized and Automated Analysis of Bio-Dosimetry Assays



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

However, though many bio-dosimetry 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 bio-dosimetry standards.

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

# BIO-DOSIMETRY

## Metafer Bio-Dosimetry Projects

Many members of bio-dosimetry 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).
- RENEB intercomparison exercises analyzing micronuclei (Cytokinesis-block Micronucleus Assay). *J. Depuydt et al., Int. J. Radiat. Biol.* 93(2017).
- Chromosome aberrations in Japanese fishermen exposed to fallout radiation 420-1200-km distant from the nuclear explosion test site at Bikini Atoll: report 60-years after the incident. *K. Tanaka et al., Rad. Env. Physics* 55 (2016).

# MetaSystems

### MetaSystems Hard & Software GmbH (Headquarters)

Robert-Bosch-Str. 6  
68804 Altlussheim, Germany  
tel +49 6205 396 10  
fax +49 6205 322 70  
info@metasystems.de

### MetaSystems Group, Inc.

70 Bridge Street  
Newton, MA 02458, USA  
tel +1 6179 2499 50  
fax +1 6179 2499 54  
info@metasystems.org

### MetaSystems S.r.l.

Via Gallarate 80  
20151 Milano, Italy  
tel +39 0236 7587 51  
fax +39 0245 3753 03  
info@metasystems-italy.com

### MetaSystems Asia Co., Ltd.

Unit 608  
No. 12 Science Park, West Avenue  
Hong Kong Science Park  
Pak Shek Kok, New Territories, Hong Kong  
tel +852 2587 8333  
info@metasystems-asia.com

### MetaSystems India Pvt., Ltd.

No. 1/1, 1st Floor, 1st Main Rd., 2nd Cross  
Thimmaiah Garden, R T Nagar  
Bangalore Karnataka, 560 032, India  
tel +91 99005 19933  
info@metasystems-india.com

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