Proceedings of the 5th World Congress on Alternatives, Berlin 2005

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Renate Künast
(Federal Minister of Consumer Protection, Food and Agriculture)

Jane Goodall
(The Jane Goodall Institute)

Reiner Wittkowski
(Vice President of the Federal Institute for Risk Assessment BfR)

Special Contibution

Thomas Hartung: ECVAM's progress in implementing the three Rs in Europe

Michael Balls: The three Rs: Looking back …. and forward

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Lynette A. Hart, Mary W. Wood and Hsin-Yi Weng: Three barriers obstructing mainstreaming alternatives in K-12 education

Jann Hau: Should live animals be used when educating future biomedical scientists?

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Rooshin B. Dalal, Megha Shah Even, Chad B. Sandusky and Neal D. Barnard: University of Virginia Medical School replaces canine lab with human patient simulator

David Dewhurst, Stewart Cromar and Rachel Ellaway: RECAL: creating computer-assisted alternatives using a sustainable learning objects approach

Nick Jukes and Siri Martinsen: The InterNICHE policy on the use of animals and alternatives in education

Nick Jukes: Internationalising Alternatives in Higher Education

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Osvaldas Ruksenas: Animals and alternatives in biomedical education in the Baltics

Jan van der Valk: Educating scientists on alternatives. A continuous process

Neil Wells: The use of animals in research, testing and teaching in New Zealand – a legal perspective

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*This paper reflects the views of the authors, has not been reviewed or approved by, and may not necessarily reflect the views of the Consumer Product Safety Commission or other agencies. This work was supported in part by NIEHS Contract N01-ES 35504. Since this paper was written as part of the official duties of the authors, it can be freely copied.

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Gerhard Gstraunthaler: Standardization in cell and tissue culture. The need for specific GLP guidelines in the cell culture laboratory (Good Cell Culture Practice – GCCP)

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Alexandra Gramowski, Simone Stüwe, Konstantin Jügelt, Dietmar Schiffmann, Jan Loock, Olaf Schröder and Dieter G. Weiss: Detecting neurotoxicity through electrical activity changes of neuronal networks on multielectrode neurochips

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Celia P. Martínez-Jiménez, María. J. Gómez-Lechón, José V. Castell and Ramiro Jover: Engineering human hepatoma cells with key transcription factors to generate metabolically competent hepatic models

Tamara Vanhaecke, Mathieu Vinken, Tom Henkens, Sarah Snykers, Greetje Elaut, Peggy Papeleu and Vera Rogiers: Effects of Trichostatin A on apoptosis-regulating proteins during hepatocyte isolation

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Makoto Umeda: Detection of non-genotoxic carcinogens using ras-transfected Bhas 42 cells

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*Summarised from the poster *Animal carcinogenicity studies: poor human predictivity* by Andrew Knight, Jarrod Bailey and Jonathan Balcombe, which received the Animal Welfare Poster Award from Deutscher Tierschutzbund (the German Animal Welfare Federation) at the 5th World Congress on Alternatives and Animal Use in the Life Sciences, Berlin, 25 August 2005. Reproduced with permission from the complete paper by Knight and Bailey (2005) in *Alternatives to Laboratory Animals*.