EDITORIAL
Sonja von Aulock

FOOD FOR THOUGHT
Thomas Hartung:
Look back in anger – what clinical studies tell us about preclinical work

MAIN ARTICLES
Barae Jomaa, Jac M. M. J. G. Aarts, Laura H. J. de Haan, Ad A. C. M. Peijnenburg, Toine F. H. Bovee, Albertinka J. Murk, and Ivonne M. C. M. Rietjens:
In vitro pituitary and thyroid cell proliferation assays and their relevance as alternatives to animal testing

Sebastian Polak:
In vitro to human in vivo translation – pharmacokinetics and pharmacodynamics of quinidine

Karin Dreisig, Camilla Taxvig, Mia Birkhøj Kjærstad, Christine Nellemann, Ulla Hass, and Anne Marie Vinggaard:
Predictive value of cell assays for developmental toxicity and embryotoxicity of conazole fungicides

Miriam N. Jacobs, Susan C. Laws, Kate Willett, Pat Schmieder, Jenny Odum, and Toine F. Bovee:
In vitro metabolism and bioavailability tests for endocrine active substances: What is needed next for regulatory purposes?

Workshop report:
In vitro testicular toxicity models: Opportunities for advancement via biomedical engineering techniques

WORKSHOP REPORT
Francesca Caloni, Patrizia Costa, Gianni Dal Negro, Isabella De Angelis, Silvia Dotti, Giovanna Lazzari, Giacomo Metteucci, and Augusto Vitale:
Alternative Methods: 3Rs, Research and Regulatory Aspects

COMMENT
Daniel R. Dietrich, Sonja von Aulock, Hans Marquardt, Bas Blaauwer, Wolfgang Dekant, James Kehrer, Jan Hengstler, Abby Collier, Abby Collier, Olavi Pelkonen, Florian Lang, Frans P. Nijkamp, Kerstin Stemmer, Albert Li, Kai Savolainen, A. Wallace Hayes, Nigel Gooderham, and Alan Harvey:
Scientifically unfounded precaution drives European Commission’s recommendations on EDC regulation, while defying common sense, well-established science and risk assessment principles

Federico M. Stefanini:
Bayesian Network Integrated Testing Strategy and beyond

Joanna Jaworska:
Reply to: Bayesian Network Integrated Testing Strategy and beyond
### Erratum

Nina Hasiwa, Mardas Daneshian, Peter Bruegger, Stefan Fennrich, Astrid Hochadel, Sebastian Hoffmann, Felix E. Rivera-Mariani, Christoph Rockel, Stefanie Schindler, Ingo Spreitzer, Sandra Stoppelkamp, Kranthi Vysyaraju, and Thomas Hartung:

Evidence for the detection of non-endotoxin pyrogens by the whole blood monocyte activation test 352

### Corners

- ASCCT 392
- CAATfeed 393
- ecopa 396
- ICCVAM/NICEATM 397
- IIVS 399

### News

- EU: ECHA decision on rabbit inhalation studies annulled 401
- EU: EPAA lab tech award 401
- GER: Animal protection class actions introduced in three German states 401
- GER: Bundesrat introduces regulation for animal experiments 402
- GER: Revised book on cell and tissue culture 402
- GER: Towards alternative methods in education in Eastern Europe 402
- INT: DNT4 – call for abstracts 403
- INT: Grants for research roadmaps for 3 human disease areas 403
- SUI: News from ALTEx 404
- UK: CRACK IT Solutions funding 404
- UK: Michael Balls made Honorary Life President of FRAME 404
- UK: Nominations for the 2013 Lush Prize sought 405
- USA: 2014 CAAT Science-based Refinement Awards: Call for proposals 405
- USA: EPA announces plans for ToxCast Phase II release 405
- USA: NIH to retire 90% of chimpanzees from research 406
- USA: Toxicogenetics Challenge open 407

### Instructions for Authors 292

### Calendar of Events 308

### Imprint 408