

LINZ 2008



MEGAT

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Poster (in alphabetical order of the first author)

IL-1 α release quantification in culture media: how to ensure standardization?

Frédéric Amaral, Damien Lelièvre, José Cotovio

L'Oreal Research, Life Sciences (Aulnay Sous Bois) (FR)

In vitro skin irritation assessment of colored and colorant-like chemicals using the ECVAM validated EpiSkin™ assay: the need of appropriate and relevant controls

Frédéric Amaral, Caroline Chesneau, Elodie Lambert, Laure Martin, Damien Lelièvre, Marie-Hélène Grandidier, José Cotovio

L'OREAL Research (Aulnay Sous Bois) (FR)

In vitro model for evaluation of Zineb induced oxidative stress, immunosuppression and apoptosis

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GB Pant University of Agriculture & Technology, Pantnagar (Pantnagar) (IN)

Protective effects of herbal cosmetic ingredients assessed in cell and tissue cultures and in human studies

Hana Bendová⁰, Kristina Kejlová⁰, Dagmar Jírová⁰, Marek Malý⁰, Hana Kolářová¹

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A combined assay measuring binding and enzymatic activity allows in vitro detection of tetanus toxicity in vaccines

Heike A. Behrens-Nicol, Ursula Bonifas, Birgit Kegel, Katja Silberbach, Karin Weisser, Beate Krämer

Paul-Ehrlich-Institut (Langen) (DE)

Potency testing of inactivated rabies vaccines for veterinary use: correlation of results between mouse challenge test and serological assay

Heike A. Behrens-Nicol, Heidelore Schildger, Kay-Martin Hanschmann, Karin Duchow, Beate Krämer

Paul-Ehrlich-Institut (Langen) (DE)

The use of precision cut lung slices to assess nanoparticle mediated toxicity

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An epithelial airway model to study the effects of gold nanoparticles deposited at the air-liquid interface

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Towards a European Science without Animal Experiments

Gemma Buckland⁰, Emily Mclvor¹, Gill Langley⁰

⁰ Dr Hadwen Trust (Hitchin) (GB)

¹ HSI (GB)

Human HepaRG® hepatocytes for the detection of toxic metabolic pathways

Christophe Chesne

BIOPREDIC International, (Rennes) (FR)

In vitro acute skin irritancy of 184 cosmetic ingredients using the validated EPISKIN model protocol

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Optimized 1H/16H SkinEthic human corneal epithelial (HCE) protocol to predict ocular irritancy: application to a large set of 400 industrial chemicals

José Cotovio⁰, Marie-Hélène Grandidier⁰, Carole Amsellem¹, Jean-Marc Ovigne⁰, Damien Lelièvre⁰, Christophe Capallere², Jean-Roch Meunier⁰, Jacques Leclaire³

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Challenging the legal basis of the rodent carcinogenicity test in UK

Alistair Currie

People for the Ethical Treatment of Animals Europe (London) (UK)

Towards a standardized trans-epithelial electrical resistance measurement on in vitro cutaneous and ocular reconstructed models

Thomas Delanne, Damien Lelièvre, José Cotovio

L'Oréal (Aulnay Sous Bois) (FR)

Growth of squamous carcinoma cells under the influence of chemotherapeutic agents

Trevor DeVaney, Sabine Reinisch

Medical University of Graz (Graz) (AT)

Correction of surface tension induced refraction artefacts at the meniscus interface in multiwell plates

Trevor DeVaney, Wolfgang Sax, Florian Platzer

Medical University of Graz (Graz) (AT)

Primary porcine alveolar epithelial cells (pAEpC) as a model for drug permeability assays

Helena Eixarch, Anne Steimer, Eleonore Haltner, Udo Bock

Across Barriers GmbH (Saarbruecken) (DE)

The antiproliferative activity of the Holocene grain wash out can be enhanced by HulFN-Alpha N3 but not with the rHulFN-Alpha 2

Bratko Filipic⁰, Branko Kesteli¹, Tatjana Sindik-Milosevic², Srecko Koren⁰, Evgen Šooš³

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Cell-growth promoting fractions originated from bovine blood clot in combination with the porcine ocular fluid

Bratko Filipic⁰, Srecko Sladoljev¹, Lidija Gradisnik², Avrelija Cencic³, Eva Ruzic-Sabljić⁰, Srecko Koren⁰

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In vitro study of the toxicity induced by Nickel and Cobalt particles on human lung cells

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Characterisation of a new human renal proximal tubular cell line (RPTEC/TERT1), generated by the introduction of telomerase activity

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One step further towards computer assisted simulation of percutaneous absorption to avoid animal experiments – the combination of experiment and simulation effectively helps to identify new important parameters

Steffi Hansen⁰, Tsambika Hahn⁰, Arne Naegel¹, Michael Heisig¹, Gabriel Wittum¹, Dirk Neumann², Ulrich Schaefer⁰

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Drug metabolizing enzyme activity in human in vitro dermal (EpiDerm™) and airway (EpiAirway™) epithelial models

Patrick Hayden, Helena Kandarova, Jennifer Bolmarcich, George Jackson, Howard Cohen, Gina Stolper, Mitchell Klausner

MatTek Corporation (Ashland) (US)

Healing of dermal wounds in the EpiDerm-FT™ in vitro human skin model

Patrick Hayden, Helena Kandarova, Gina Stolper, Carolyn Cooney, Mitchell Klausner

MatTek Corporation (Ashland) (US)

Development of a predictive in vitro test module for developmental neurotoxicity testing using mouse embryonic stem cells

Katrin Hayess, Dana Sittner, Birgitta Slawik, Anke Visan, Horst Spielmann, Andrea Seiler

Federal Institute for Risk Assessment (BfR) (Berlin) (DE)

The reference laboratory concept in the United States: Successfully combining in vitro testing services and an education program in a non-profit Institute

E.H. Hill, Rodger Curren, H.A. Raabe

Institute for In Vitro Sciences, Inc. (Gaithersburg, MD) (US)

The Hen`s Egg Testing on the Chorioallantoic Membrane – a model for multiple purposes

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A new human hepatocyte cell line as a vantage point for a new generation of organoid liver test systems?

Anke Hoppensack, Lisa Kaschel, Johanna Schanz, Kirstin Linke, Heike Mertsching

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Alternative endpoints in the LLNA in order to reduce false positive results

A.H.B.M. van Huygevoort, R.P.L. van Swelm, M.H.M. van Tuyl, H.H. Emmen, M. Stitzinger

NOTOX B.V. ('s-Hertogenbosch) (NL)

Alternatives across Latin America: catalysing change in the curriculum

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Three's a crowd: the 1R of replacement for education and training

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Phototoxicity of essential oils intended for cosmetic use

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Nanotoxicity: application of atomic force microscopy and novel nanoparticle measurement technology

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Towards an in vitro model for xenobiotic passage at the materno-fetal interface based on permanent cell lines

Carsten Kneuer, Vera Ritz, Ursula Gundert-Remy, Karen-Ildico Hirsch-Ernst

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The beginning of the end for chimpanzee experiments?

Andrew Knight

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Non-animal methodologies within biomedical research and toxicity testing

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In vitro differentiation of skin sensitizers by cell signaling pathways

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Functional assays are mandatory for a correct prediction of immunosuppressant properties of compounds in vitro

Lydia Mareen Koepfer, Hans-Werner Vohr

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Generation of functional astrocytes from embryonic stem cells to assess neurodevelopmental toxicants and CNS-active drugs

Philipp Kuegler, Suzanne Kadereit, Bastian Zimmer, Marcel Leist

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Development of a new reconstituted human corneal model to assess the ocular irritating test

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Prevalidation study for testing the toxic effects of inhalable substances (gases) on human lung cells using an air/liquid culture technique

Manfred Liebsch⁰, Lena Smirnova⁰, Julian Tharmann⁰, Mario Bauer¹, Carolin Braebach¹, Gunter Linse², Rosa Siemers², Christine Otto², Edith Berger-Preiß³, Heiko Kock³, Antje Oertel³, Detlef Ritter³, Jan Knebel³

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Use of in vivo bioluminescence imaging for the investigation of bacterial infection courses and heterologous gene expression of bacterial vectors with small groups of mice

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Caco-2 adenocarcinoma on chicken embryos chorioallantoic membrane (CAM) as an alternative to mammalian models for preclinical tests of new cytostatic drug formulations

Brigitta Loretz, Ulrich F. Schaefer, Claus-Michael Lehr

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ARPE-19 retinal pigment epithelia cells as an in vitro model for the examination of light induced cell damage in the eye

Reza Lornejad-Schäfer, Christine Schäfer, Harald Schöffl, Jürgen Frank

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Nanotechnology and contact allergy

Jakob Torp Madsen⁰, Peter Bollen¹, Ann-Therese Karlberg², Carl Simonsen², Stefan Vogel¹, Jeanne Duus Johansen¹, Klaus Ejner Andersen⁰

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Training the animal doctor: Caring as a clinical skill

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Dynamic 3D in vitro intestinal test system

Jacqueline Michaelis

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Confrontation cultures of embryonic stem cell-derived embryoid bodies and multicellular tumour spheroids: a novel in vitro model for the study of tumour-induced angiogenesis

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Assessment of corneal surface impairment and early signs of eye irritation on reconstructed human corneal epithelium

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Swiss court bans work on Macaque brains

Claudia Mertens, Barbara Schnüriger

Zürcher Tierschutz (Zürich) (CH)

New animal model for objective pain research: Non-invasive functional imaging in anesthetized animals by BOLD fMRI to study initial processes of chronic pain

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Improved toxicity prediction for safety assessment of drugs during preclinical drug development using relevant hepatic and cardiac cell lines

Fozia Noor, Jens Niklas, Alexander Strigun, Simone Beckers, Elmar Heinzle

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In vitro micronucleus assay using a co-culture system: towards new tools for in vitro risk assessment of dermally applied compounds?

Gladys Ouédraogo, Michèle Feltès, Linda Bourouf, Nicole Flamand, Jean-Roch Meunier

L'Oréal (Aulnay sous bois) (FR)

The use of histopathology to improve the predictive capacity of the Bovine Corneal Opacity and Permeability (BCOP) assay

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The Comet Assay in the Phenion® Full Thickness Model as a putative tool for improved in vitro genotoxicity testing

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Implementation of in silico models in the cosmetic industry to face the 7th Amendment of the European Cosmetics Directive

Stéphanie Ringeissen, Reine Note, Catherine Dochez, Nicole Flamand, Gladys Ouedraogo-Arras, Jean-Roch Meunier

L'Oréal Recherche (Aulnay-sous-Bois) (FR)

Analysis of potential toxicity caused by genetically modified plants: A combination of in vitro methods as an alternative to feeding studies

Dieter Runge⁰, Olivia Pansch⁰, Kristin Kast⁰, Mandy Bruch¹, Andre Kacholdt¹, Hendrik Rudolf⁰, Elmar Mohr¹, Anett Ullrich⁰

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The human dopaminergic neuronal cell line LUHMES as in vitro model for Parkinson's disease

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Current activities of the foundation Animalfree Research (AfR), formerly Fonds für versuchstierfreie Forschung (FFVFF)

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Development of an in vitro cultivation system for the haemotrophic bacterium Mycoplasma Suis

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Bringing toxicology into the 21st century: A global call to action

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A simple and inexpensive in vitro model to study the effects of hypoxia on pulmonary epithelial and microvascular endothelial cells

Sara Signorelli⁰, Paul Jennings⁰, Martin Leonard¹, Walter Pfaller⁰

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Novel test lung for real life supported simulation

Katharina Stiglbanner, Markus Wurm, Clemens Jagerhofer, Jacqueline Mader, Andreas Drauschke, Peter Krösl

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Assessment of DNA oxidation by Nitroheterocyclic compounds using cultured YAC-1 cells

Alois Strasser, Harald Kühnel, Günter Marik, Ivo Schmerold

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Influence of “danger signals” on CD54 and CD86 marker expression in THP-1 cells - Improvement by HaCaT-Coculture

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Non-Animal Approaches to Inhalation Toxicity Assessment: A Proposal for a Way Forward

Kristie Sullivan, Chad Sandusky

Physicians Committee for Responsible Medicine (Washington) (US)

Gene expression analysis in chemical-treated dendritic cells: Discriminating contact sensitizers and irritants employing the immune toxicity chip and a whole genome array

Sandra Szameit, Klemens Vierlinger, Letizia Farmer, Helga Tuschl, Christa Nöhammer

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Opportunities and threats for animals during the implementation of REACH

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Recommendations for the revision of Directive 86/609/EEC from the European animal protection movement

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The continued need for a cruelty-free standard for cosmetics

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Estimates for Worldwide Laboratory Animal Use

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SkinEthic' Reconstructed Human Epidermis (RHE) model: Development of an alternative method for skin irritation testing

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Daphnia magna as alternative bioobject in ecotoxicology

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Surface modification influences the in vitro toxicity of gold nanoparticles in human alveolar type-II cell lines

Chiara Uboldi, Susanne Barth, Ronald E. Unger, C. James Kirkpatrick

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The Perspectives of integration of humane education in Armenia

Armen Vardapetyan

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Quantitation of sensitizing potential by the loose-fit coculture-based sensitization assay (LCSA) in comparison with LLNA-data

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Metabolism studies of the Phenion® full thickness skin model as compared to other in vitro models and human native skin

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Cell based assay for label-free, long-term investigation of living cells as alternative testing method for toxicity

Joachim Wiest⁰, Daniel Grundl¹, Michael Schmidhuber¹, Marlies Brückl¹, Martin Brischwein¹, Helmut Grothe¹, Angela M. Otto¹, Bernhard Wolf¹

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Application of an intelligent testing strategy to the US EPA Endocrine Disruptor Screening Program

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Progress in sharing data from repeated dose toxicity studies

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Development of an in vitro test system for developmental neurotoxicity

Bastian Zimmer, Philipp B. Kügler, Suzanne Kadereit, Marcel Leist

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A human corneal model for the prediction of eye irritation: progress report

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