

# ALTEX

<http://www.altex-edition.org>  
<http://altweb.jhsph.edu/altex>

**A journal for new paths  
in biomedical science**

**Vol. 30** (Issue 4/2013)

Official organ of: ASCCT, American Society for Cellular and Computational Toxicology, Fairfax, VA, USA; CAAT, Center for Alternatives to Animal Testing, Johns Hopkins University, Baltimore, MD, USA; CAAT-Europe, University of Konstanz, Konstanz, Germany; Doerenkamp-Zbinden Chairs in Germany, India, The Netherlands, Switzerland and USA; ecopa, European consensus-platform for alternatives, Brussels, Belgium; EUSAAT, European Society for Alternatives to Animal Testing, Vienna, Austria; t4 – transatlantic think tank for toxicology, Baltimore, USA, Konstanz, Germany, Utrecht, The Netherlands

**Issued by:**

Society ALTEX Edition, Kuesnacht, Switzerland

**Board:**

Stefanie Schindler  
(President, Konstanz, Germany)  
 Carol Howard  
(Vice-President, Baltimore, USA)  
 Mardas Daneshian (Konstanz, Germany)  
 Goran Krummenacher (Kuesnacht, Switzerland)  
 Daniel Favre (Thônex, Switzerland)  
 Thomas Hartung (Baltimore, USA)  
 Franz P. Gruber (CEO, Kuesnacht, Switzerland)

**Members:**

The members of the Society ALTEX Edition can be found at <http://www.altex-edition.org>

**ALTEX Edition Editorial Office Europe:**

Sonja von Aulock (Editor in chief, Konstanz, Germany)  
 Franz P. Gruber (Kuesnacht, Switzerland)  
 Petra Mayr (Editor TIERethik, Bad Mündler, Germany)  
 Carolin Rauter (Schopfheim, Germany)  
 Goran Krummenacher (Webmaster, Zurich, Switzerland)

**Address:**

Society ALTEX Edition  
 Weinmannngasse 86  
 8700 Kuesnacht ZH, Switzerland  
 Phone: +41 44 380 0830  
 Fax: +41 44 380 0832  
 e-mail: [editor@altex.ch](mailto:editor@altex.ch)

**ALTEX Edition Editorial Office USA:**

Joanne Zurlo (North American Editor)  
 Thomas Hartung  
 Carol Howard  
 Michael M. Hughes

**Address:**

Johns Hopkins University Baltimore  
 615 N Wolfe Street, W7032 Baltimore,  
 MD 21020, USA  
 Phone: +1 443 287 2515  
 Fax: +1 410 614 2871  
 e-mail: [jjurlo@jhsph.edu](mailto:jjurlo@jhsph.edu)

**Editorial Board:**

Mohammad A. Akbarsha (Tiruchirappalli, India)  
 Bas J. Blaauboer (Utrecht, The Netherlands)  
 Miroslav Cervinka (Hradec Cralove, Czech Republic)  
 Nicole Clemann (Basel, Switzerland)  
 Pierre Cosson (Geneva, Switzerland)  
 Klaus Cüßler (Langen, Germany)  
 Daniel Dietrich (Konstanz, Germany)  
 Andrzej Elzanowski (Warsaw, Poland)  
 Gerhard Gstraunthaler (Innsbruck, Austria)  
 Thomas Hartung (Baltimore, USA)  
 Jan G. Hengstler (Dortmund, Germany)  
 Marcel Leist (Konstanz, Germany)  
 Coenraad F. M. Hendriksen (Bilthoven, The Netherlands)  
 Brigitte Rusche (Neubiberg, Germany)  
 Walter Pfaller (Innsbruck, Austria)  
 Stefanie Schindler (Konstanz, Germany)  
 Klaus R. Schröder (Linz, Austria)  
 Horst Spielmann (Berlin, Germany)  
 Jan van der Valk (Utrecht, The Netherlands)

**ALTEX Online:**

<http://www.altex-edition.org>  
<http://altweb.jhsph.edu>

ALTEX is indexed in PubMed, Current Contents®, SciSearch®, ISI Document Solution®, DOAJ, and Embase.

**Cover Picture:**

TurboRFP expressing LUHMES were mixed with wtLUHMES at a ratio of 2:98 and incubated for 3 days. Hoechst-stained nuclei are shown together with an overlay of RFP-positive neurite traces. Neurites are traced outward from each cell body (blue and red masks), analyzed, and validated against object selection parameters (like total neurite length, neurite branch points, or neurite cross points), see Schildknecht et al., 427-444, Fig. 3C.

**Layout:** H. P. Hoesli, Zurich, Switzerland

**Print:** Stuertz GmbH, Wuerzburg, Germany

**Distribution:**

ALTEX, Weinmannngasse 86  
 8700 Kuesnacht ZH, Switzerland  
 Phone: +41 44 380 0830,  
 Fax: +41 44 380 0832  
 Fax Germany: +49 7531 25833  
 e-mail: [subs@altex.ch](mailto:subs@altex.ch)

**Publisher:**

Springer Spektrum | Springer-Verlag GmbH  
 Tiergartenstraße 17  
 69121 Heidelberg, Germany  
[www.springer-spektrum.de](http://www.springer-spektrum.de)

**Circulation:** 650

**Issues:** 4 per annum plus supplements

**Subscription rates 2013:**

*ALTEX* (4 issues) + *TIERethik* (2 issues)  
 Standard: 113 €  
 Library: 198 €  
 (companies, institutes, libraries)  
 Student: 66 €  
 (please fax proof of student status)  
 Animal Protection: 66 €  
 (members of animal protection organizations)

*ALTEX* (4 issues)

Standard: 85 €  
 Library: 170 €  
 (companies, institutes, libraries)  
 Student: 46 €  
 (please fax proof of student status)  
 Animal Protection: 46 €  
 (members of animal protection organizations)

*TIERethik* (2 issues):

Standard/Library: 36 €  
 Student/Animal Protection: 24 €

All prices include P&P for all European countries, the USA, and India. Additional costs for shipment outside of Europe and USA: 5 € per issue. Please ask for special subscription rates for only one issue of TIERethik and for India.

**Submissions:** Follow instructions for authors posted on the ALTEX website.

**Aims and Scope – Protecting More Than Animals**

ALTEX is devoted to the publication of research on the development and promotion of alternatives to animal experiments according to the 3R concept of Russell and Burch: Replace, Reduce, and Refine. Animal experiments are defined by the editors as all experimental procedures involving the use of animals in testing, research, and education or to obtain tissues, organs, and other animal-derived products which may cause pain or distress to animals.

ALTEX is also devoted to the bioethics of the complex relationship between humans and animals. Articles published in ALTEX must express a basic concern for the dignity of living creatures and the recognition of animals as our partners.

ALTEX publishes original articles, short communications, reviews, as well as comments, corners, news, and meeting reports.

Manuscripts submitted to ALTEX are evaluated by two expert reviewers. The evaluation takes into account the scientific merit of a manuscript and its contribution to animal welfare and the 3R principle.

ALTEX Proceedings publishes Abstract Books and Proceedings of scientific conferences. TIERethik is a German-language journal devoted to the bioethics of the relationship between animals and humans.

© Copyright: Society ALTEX Edition, Kuesnacht ZH, Switzerland