

A journal for new paths in biomedical science

Vol. 27 (1/2010)

Official organ of: CAAT, Center for Alternatives to Animal Testing, Johns Hopkins University, Baltimore, USA; CAAT-EU, University of Konstanz, Germany; EUSAAT, European Society for Alternatives to Animal Testing, Vienna, Austria; t<sup>4</sup> – transatlantic think tank for toxicology, Baltimore, USA, Konstanz, Germany, Utrecht, The Netherlands; Doerenkamp-Zbinden Chairs in Germany, India, The Netherlands, Switzerland and USA

# **Editor:**

Society ALTEX Edition Kuesnacht ZH, Switzerland

## **Editor in chief:**

Franz P. Gruber, Kuesnacht ZH, Switzerland

# Society ALTEX Edition, Board:

Mardas Daneshian (Konstanz, Germany); Markus Deutsch (Hinwil, Switzerland); Daniel Favre (Thonex, Switzerland); Thomas Hartung (Baltimore, USA); Carol Howard (Baltimore, USA); Claudia Mertens (Winterthur, Switzerland); Stefanie Schindler (Konstanz, Germany)

# The members of the Society ALTEX Edition can be found on www.altex.ch

### **ALTEX Editorial Office Europe:**

Franz P. Gruber, Kuesnacht ZH, Switzerland; Petra Mayr, Bad Münder, Germany; Carolin Rauter, Konstanz, Germany; Horst Spielmann, Berlin, Germany; Sonja von Aulock, Konstanz, Germany; Irène Hagmann, Zurich, Switzerland. Webmaster: Goran Krummenacher, Zurich, Switzerland.

#### Address:

Society ALTEX Edition Weinmanngasse 86, 8700 Kuesnacht ZH, Switzerland Phone: +41 44 3800830 Fax: +41 44 3800832 e-mail: editor@altex.ch

# **ALTEX Editorial Office USA:**

Thomas Hartung, Carol Howard, Michael Hughes, Betsy Nessen Merrill, Baltimore, MD, USA

# Address:

CAAT

615 N Wolfe St., W7032 Baltimore, MD 21205, USA Phone: +1 410 614 4990, Fax: +1 410 614 2871 e-mail: thartung@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 Cußler (Langen, Germany) Andrzej Elzanowski (Warsaw, Poland) Friedrich Harrer (Salzburg, Austria) Thomas Hartung (Baltimore, USA) Jan G. Hengstler (Dortmund, Germany) Jane Huggins (Plainsboro, USA) Marcel Leist (Konstanz, Germany) Coenraad F. M. Hendriksen (Bilthoven, The Netherlands) Brigitte Rusche (Neubiberg, Germany) Walter Pfaller (Innsbruck, Austria) Stefanie Schindler (Konstanz, Germany) Horst Spielmann (Berlin, Germany) Jan van der Valk (Utrecht, The Netherlands) Angelo Vedani (Basel, Switzerland) Gilman D. Veith (Two Harbors, USA)

# ALTEX Online: www.altex-edition.org

Altweb: http://altweb.jhsph.edu ALTEX is indexed in MEDLINE, Current Contents®, SciSearch® and ISI Document Solution® and eMBASe.

### **Cover picture:**

The University of Konstanz lies above beautiful Lake Constance. CAAT-EU, which is introduced in this issue of ALTEX, is located in the top left building. Photographer: Ralf Metzger, Copyright University of Konstanz. Layout: H. P. Hoesli, Zurich, Switzerland

Print: Stuertz GmbH, Wuerzburg, Germany

## **Distribution:**

ALTEX, Weinmanngasse 86 8700 Kuesnacht ZH, Switzerland Phone: +41 44 380 0830; Fax: +41 44 380 0832 Fax: +49 7531 25833 e-mail: subs@altex.ch

#### **Publisher:**

Spektrum Akademischer Verlag. Springer Science + Business Media.

## **Edition:**

1,200

#### **Circulation:**

5 times per annum (four English and one German issues) plus supplements

### **Subscription rates:**

Full Subscription (four English issues plus ALTEXethik): Normal: 90 € Library: 170 € (companies, institutes, libraries)

Student: 52 € (please fax proof of student status) Animal Protection and Scientific Societies: 52 €

Engl.-Subscription (four English issues): Normal: 80 €

Library: 160  $\in$  (companies, institutes, libraries) Student: 42  $\in$  (please fax proof of student status) Animal Protection and Scientific Societies: 42  $\in$ *NEW: ALTEXethik subscription* 

ALTEXethik: 15 € (German issue only)

All prices include postage and handling for all European countries and the USA.

Additional costs for shipment outside of Europe and USA:  $20 \in$  for 4 issues,  $25 \in$  for 5 issues.

Please ask for special subscription rates for India

#### **Aims and Scope - Protecting More Than Animals**

ALTEX, edited by the Swiss Society ALTEX Edition, is the official journal of CAAT, the Center for Alternatives to Animal Testing at the Johns Hopkins University in Baltimore, USA, EUSAAT, the European Society for Alternatives to Animal Testing (former MEGAT), t<sup>4</sup>, the transatlantic think tank for toxicology (Baltimore, Utrecht, Konstanz) and the Doerenkamp chairs in Germany, India, The Netherlands, Switzerland and USA. 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.

ALTEX publishes original articles, short communications, and reviews, as well as news and comments, meeting reports and book reviews. 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 that may cause pain or distress to animals.

In addition to covering the biomedical aspects of animal experimentation, ALTEX is devoted to the bioethics of the complex relationship between humans and animals. Articles published in ALTEX should convey a basic respect for the dignity of living creatures and a recognition of animals as our partners. Articles devoted to the social and ethical aspects of this topic will be judged according to stringent scientific standards.

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

© Copyright: Society ALTEX Edition, Kuesnacht ZH, Switzerland